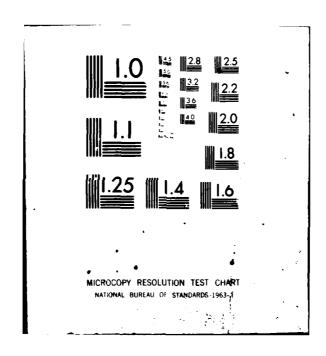
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scope, limitations, and definitions needed to understand and use the volumes containing the noise data. It provides guidance for making airspeed and engine power setting adjustments to the flight noise data for other than reference conditions as well as work sheets and several examples for computing cumulative noise exposure resulting from multiple flight or ground runup operations. Noise data are presented in this Volume 7 for the following aircraft suppressor systems: A-7 in the AF32A-19 and AF32A-24 noise suppressors, KC-135A in the modified AF32A-52 noise suppressor, F-4 in the AF32A-14 noise suppressor, F-5 in the AF32A-18 noise suppressor, F-15 in the AF32A-23 noise suppressor, F-16 in the AF32A-25 noise suppressor, F-100 in the AF32A-16 noise suppressor, F-106 in the AF32A-17 noise suppressor, F-111 in the AF32A-13 noise suppressor and T-38 in the AF32A-18 noise suppressor

The other noise data volumes are categorized according to:

Vol. 2: Air Force Bomber/Cargo Aircraft Vol. 3: Air Force Attack/Fighter Aircraft Vol. 4: Air Force Trainer/Fighter Aircraft

Vol. 5: Air Force Propeller Aircraft

Vol. 6: Navy Aircraft

PREFACE

The author gratefully acknowledges the many helpful technical discussions and critical reviews of the data acquisition and reduction procedures by Bolt Beranek and Newman Inc. and Mr. John N. Cole, Mr. Jerry D. Speakman and Mr. Robert G. Powell of the Biodynamic Environment Branch; development of the OMEGA software programs by Mr. Henry Mohlman and maintenance of the data files by Mr. Fred Lampley both of the University of Dayton Research Institute, the instrumentation development and noise measurement efforts of Harald K. Hille of the Biodynamic Environment Branch; and the report preparation efforts of Mrs. Norma Peachey of the Biodynamic Environment Branch.

This report is one of a series describing the contractual and in-house research program undertaken by the Aerospace Medical Research Laboratory, Biodynamic Environment Branch, under Project/Task 723107, "Technology to Define and Assess Environmental Quality of Noise from AF Operations," to develop the procedures and acoustic data base required for predicting community noise exposure resulting from aircraft operations.

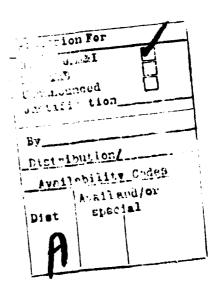


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INTRODUCTION

This report is one of a series published under the same report number (AMRL-TR-73-110) as a multi-volume databook quantifying the single event, far-field noise produced on the ground by flyover and ground runup operations of military aircraft. A companion report (AMRL-TR-73-107, "Community Noise Exposure Resulting From Aircraft Operations: Acquisition and Analysis of Acoustic Data") describes the test protocol and data reduction algorithms associated with these data.

Volume 1 discusses the scope, definitions, and limitations of the noise data volumes as well as providing work sheets and several examples of making hand computations of noise exposure from multiple flight and/or ground runup operations.

Volume 7 provides the noise characteristics of USAF aircraft in Grade II demountable suppressors during ground runup operations.

OMEGA 8.2 output pages show the expected far-field noise levels for single engine operation of the various aircraft operating inside the noise suppressors during ground runup operations. Distances and angles to the far-field noise data locations are measured from a point of origin located on the ground directly below the center of the suppressor exhaust stack. The angle is determined by the orientation of the aircraft in the suppressor with the aircraft nose representing 0° and the aircraft exhaust representing 180° .

The other noise data volumes are categorized according to:

- Vol. 2: Air Force Bomber/Cargo Aircraft Noise
- Vol. 3: Air Force Attack/Fighter Aircraft Noise Data
- Vol. 4: Air Force Trainer/Fighter Aircraft Noise Data
- Vol. 5 Air Force Propeller Aircraft Noise Data
- Vol. 6: Navy Aircraft

Direct any questions concerning the data in this report to: AFAMRL/BBE, Wright-Patterson AFB OH 45433; AUTOVON 785-3664 or 785-3605; Commercial (513) 255-3664 or (513) 255-3605.

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| | FHX | 130 | 74.572.4 | 65.6 63.5 61.1 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | M 04. |
| | 59.92 70 70 | 120 | ω ι Λ ≄ Λ | | | 17.3 11.3 6.1 2.2 |
| | SS C | | m N 3 e | w w ∞ | mroorn4noo o | |
| | PRESS HUMID HUMID | 977 | 222 | 66.5 | | 2000 |
| | METEOROLOGY : TEMP TEMP BAR PRES REL HUMI DELTA N = | EES) 100 | 76.4 | 67.7 65.4 63.1 | | 11.8 11.6 6.3 2.4 |
| |) HET | (DEGREES) 90 100 | 3 N 41 0 | 63.65 64.65 58.9 | . SONAFFERMOS . SONAFFERMOS . CONAFFERMOS . CONA | 100c0 |
| | | ANGLE 80 | ∞ ~ 1 0 M | N 0' C | | 9492 |
| | RUNUP | ¥ 8 | 25. 45. 45. | 67. 64. 62. | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 22.2 |
| SOURCE | Z P R | 0, | 75.1 73.0 70.7 68.5 | 66.2 63.8 61.4 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 16.4 11.2 6.5 2.5 |
| FROM SC | RAIION: IDLE PWR, 55% SINGLE ENGINE SUPPRESSED GRO | 0.9 | 8 9 4 6 | 65.9 63.5 61.1 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 16.3 11.0 6.3 2.6 |
| ~ (| N. P. W.R. S. F. | | w m = 0 | 400 | V 10 10 10 20 00 01 01 00 00 10 | on at at the |
| EL (DBA | OPERATION: IDLE P SINGLE SUPPRE | 53 | | 3 65 | | 2000 H C C C C C C C C C C C C C C C C C |
| LEV | OPER | 9 | 74.3 72.1 69.9 | เม็กเล | | 4.00 |
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| N N | T & ESSOR | | ~ 68 | 1 6 0 10 → | | |
| GHTED OVE | SUPPR | 97 | 73. | 66. 64. 62. | | |
| A-WEIGHTED AS A FUNCTI | SOURCE/SUBJECT: 7 NOISE SUPPRESSOR 32A-19 | э | 71.8 69.7 67.6 | 63.3 64.1 58.8 | , , , , , , , , , , , , , , , , , , , | 11 80 11 13 6 4 13 8 6 5 13 8 6 5 13 13 13 13 13 13 13 13 13 13 13 13 13 |
| | E SOURCE/S A-7 NOISE AF32A-19 | T CE | | | | 0000 |
| TABLES | 010 | DISTANCE (FEET) | 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 8 6 6 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 12580 15000 20000 25000 |

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| (TABLES | TONE | TONE-CORRECTED, | TED, A. | A-WEIGHT | HTED OVE | OVERALL S | SOUND L | LEVEL (| (DBA) | | | | | | | LOENI |)I: | IONE | |
|--------------------|--------------|-----------------|-------------|--------------|--------------------------|--|------------|---------|--------|---|---|----------------|-------------------------|------------|----------------------------|---------------------------------------|-----------------------------|----------|-----------------|
| | AS A | FUNCTION | 9 | ۳ ا | AND DIS | ANCE | FROM S | SOURCE | | | | | | | |) TEST 7 | 77-83 | -833-001 | |
| NOISE S | RCE/ OISE | SUPPRE | } | | OPERAT ID SI SU | TON TO THE PERSON TO THE PERSON T | 1 64 | RPH | AUN UP | Ē Ö | METEOROLOGYS TEMP BAR PRES REL HUMI DELTA N * | PRESS HUMID | = 59 = 29.92 = 70 | I I HG | 1 1 1 1 1 1 | AIRCRA DOPERAT PROFIL 28 NOV | 110N 179 61 9 61 9 | CODE 8 | 33 1013 A |
| (OISTANCE (FEET) | - E | 3 | 20 | 30 | 3 | 50 | 3 | 7.0 | ANGLE | 1 | (DEGREES) 90 100 | 118 | 120 | 130 | 140 | 15u | 160 | 170 | 186 |
| 2.0 | 73.6 | 77. | 76.7 | _ | 74.3 | 78.1 | 76.5 | 76.7 | 78.0 | 74.0 | 80.0 | 76.1 | | • | м | 75.5 | 73.8 | 76.7 | 66.6 J |
| (250 | 71.5 | 75.5 | 74.5 | _ | 72.1 | 15.9 | 74.3 | 74.5 | 75.9 | 71.9 | 77.9 | 74.0 | • | | ~ | | 71.7 | | 64.5 |
| 315 | 4 ° 6 | 73 | 72.3 | | ச் ச | 73.7 | 72.1 | 72.3 | 73.7 | 2.69 | 75.8 | 71.8 | • | í | | ~ | 69.5 | _ | 62.3 |
| 7 E | 67.3 | | 20.7 | | ٠. | 71.4 | 6.69 | 70.0 | 71.5 | 67.5 | 73.6 | 9 69 | ω. | m | 6 0 i | ٥. | 67.3 | | 69.2 |
| | 62.1 | 9 | 65.4 | _ | 2.0 | 69°I | 9,4 | 2.79 | 2 60 | 2.60 | 41.6 | 4.79 | ٠. | . . | rv c | ، م | 65.1 | | 57.9 |
| 979 | 64.6 | 9,49 | 62.9 | 65.1 | 60.3 | | 62.8 | * o | 0 4 | 5 C C C C C C C C C C C C C C C C C C C | 55.7 | 52.7 | 65.1 | 62.7 | 65°2 | 64.5 | 29.7 | 65.6 | 55.6 |
| | | : | | | ; | | | | | • | | | , | , | , | | • | | 200 |
| 1000 | 58,3 | 61. | 60.4 | _ | 57.7 | 61.7 | 50.3 | 60.4 | 61.9 | 58.4 | 64.3 | 60.2 | 63.4 | 6 | | 59.6 | 57.9 | 60.8 | 50.8 |
| 1250 | 55.9 | 50 | 57.7 | 60. 0 | 54.9 | 59.0 | 2.19 | 57.7 | 59.3 | 55.4 | 61.8 | 57.6 | 60.0 | 58.5 | 57.8 | | 55.3 | ~ | 48.3 |
| 1600 | 53.4 | 56.4 | 54.9 | | 52.0 | 26.2 | 54.9 | 54.9 | 56.5 | 52.7 | 59.1 | 54.8 | 58.5 | , | _ | 54.3 | 52.6 | 10 | 45.5 |
| 20:02 | 53.6 | 53. | 52.0 | _ | 48.9 | 53.2 | 51.9 | 52.0 | 53.6 | 49.7 | 56.3 | 51.8 | 55.4 | | _ | 51.4 | 49.7 | ھ | 42.5 |
| 2510 | 47.7 | 50. | 4 4.8 | | 45.5 | 50.0 | 48.7 | 48.8 | 50.5 | 46.5 | 53.2 | 48.6 | 52.3 | 60 | _ | 48.3 | 46.6 | ın | 39.2 |
| 3120 | *** | 47. | 45.5 | | 41.9 | 46.5 | 45.3 | 45.3 | 47.1 | 43.1 | 6.64 | 45.1 | 0.64 | 80 | ۰. | 44.9 | 43.3 | Q. | 35.7 |
| 0004 | 40.4 | | 47.6 | | 38,1 | 45.5 | 41.3 | 41.3 | 43.0 | 39.0 | 45.6 | 6.04 | 44.7 | ĸ | | 40.6 | 38.9 | | 31.5 |
| 2000 | 36.0 | 38. | 37.0 | | 33, 8 | 38.0 | 36.9 | 36.8 | | 34.5 | 40.8 | 36, 3 | 43.0 | . | _ | 35.9 | 34.2 | _ | 26.9 |
| 6300 | 31, 3 | 33.9 | 32,3 | | 23.5 | 33.1 | 32.0 | 32.0 | 33,5 | 29.6 | 35.6 | 31, 3 | 34.9 | • | | 30.8 | 29.0 | | 22.1 |
| 8000 | 27.6 | 29. | 27.6 | | 24.7 | 28.0 | 27.0 | 27.0 | 58.4 | 24.8 | 30.0 | 26.1 | 29.3 | 26.3 | | 25.2 | 23.4 | 26.0 | 17.7 |
| | • | į | | i | | 1 | ; | ; | | | | | | | | | | | ^ |
| | 5.52 | • • • | 7 . 7 . | * | , | 22.5 | 21.6 | 21.7 | 55.9 | ŝ | 23.8 | | 23.2 | ~ | 20.1 | 19.1 | 17.3 | 19.7 | 13.4 |
| E 221) | 18.1 | , , | 17.7 | 4 | 2.5 | 16.9 | 16.3 | 16.4 | 17.6 | 14.8 | 17.8 | 15, 3 | 17.3 | 4 | 14.1 | 13.1 | 11.4 | 13.5 | 9.3 |
| 16000 | 13.4 | ÷ | 12.5 | 13 | 13,9 | 11.4 | 11.0 | 11.2 | 15.1 | ċ | 11.6 | | 11.3 | | 7.8 | 6.9 | 5.4 | 6.9 | 5.4 |
| 29000 | 8.5 | 9.5 | 7.3 | 8,5 | 7.1 | 6. | 9 | 6.5 | 7.0 | 5.8 | 6.3 | 6.1 | 6.1 | | 2.0 | 1.3 | | ٠, | 1.8 |
| 25000 | 3° B | m | % ** | 'n | | 2.3 | 5.6 | 2,5 | 2.7 | 2•2 | 5° 4 | | 2.2 | • | | | | , | |
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| | DISTANCE | IA | = 52 | FEET | | | | | | | | | | | | TEST 77 | 77-833-001 | 00 |
|---------|-----------------|--------|--|------|--------|------------------------|--|---------|------|--------------|-----------------------|-------------------|----------|-------|--------------|------------------------------------|---------------|--------|
| NOISE S | SE SOURCE/S | 1 2 H | SOURCE/SUBJECT : 7 NOISE SUPPRESSOR | | (OPER | OPERATION: IDLE PWR | , 55x RP | | ~~ | METEOR TE | HETEOROLOGY 1 TEMP | n | F9 F | | * 4 0 | AIRCRAFT CODE | . NO. | DE 633 |
| AF 3 | 12A-19 | _ | | | | SINGLE E SUPPRESS | SINGLE ENGINE Suppressed ground runup | D RUNUP | ^^^ |) — | PRES HUMI | #29• # 0 08 | Z H X | 9 | | PROFILE VE 28 NOV 79 PAGE J1 | . VEPS 7.9 | N N |
| | | | | | 1 Nd=d | - | | | A=AL | | | | - | T=ALT | | | | |
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| | 833) 01021) N A) | 160 | | | | | | 9 | 200 | 20 | v | | | | | | | | | | | | | | | • |
|--|---|--|-----|----|-----------|--------------|------------|------------|--|------------------|------|--------|-------------|-----------|------------|------|------------|------|------------|-----------|----------------|---------------|----------------|------------|----------|---|
| TION : | CODE CODE ERSIO | 170 | | | | | | , | , do | , , | v | v | | | | | | | | | | | | | | 4 |
| 1 0 8 1 | RAFT ATION ILE V IOV 79 | 160 | 81 | 80 | 75 | 72 | 70 | 79 | 60 | | 9 . | 58 | 56 | 58 | 58 | 9 | 61 | 62 | 57 | 50 | 57 | 25 | 48 | 43 | 38 | |
| DENT OHEG | AIRCRAF OPERATI PROFILE 26 NOV PAGE | 150 | 62 | 83 | 79 | 73 | 7 | | * * * * * * * * * * * * * * * * * * * | 61, | è9 , | 66 | 28 | 99 | 9 | 63 | 69 | 65 | 99 | 9 | 28 | 53 | 49 | 4 | 41 | |
| | H _C | 7.0 | 40 | 87 | 7 9 | * | 71 | 29 | 4 6 | 27 | 55 | 53 | 29 | 63 | † 9 | 29 | 70 | 68 | 9 | 9 | 28 | 53 | 64 | 45 | 43 | 0 |
| | F 11 % | 130 | 8 | 94 | 92 | 7.8 | 70 | 9 | 200 | | | 26 | 63 | 99 | 68 | 68 | 69 | 7.1 | 63 | 63 | 9 | 55 | 21 | 45 | 41 | 9 |
| | 29.92 70 70 | 12) | 8 | 65 | 8 | 10 | 72 | ~ u | 2 3 | 'n | 584 | 55 | 63 | 65 | 99 | 99 | 68 | 99 | 61 | 61 | 58 | ů | 50 | 45 | 14 | 3 |
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| | 9 23 3 | ES) | 81 | 93 | 8 | 7.7 | ~ | 72 | 610 | Ó | 574 | 52 | 63 | 49 | 49 | 99 | 20 | 29 | 29 | 61 | 59 | 2 | 51 | 46 | 41 | į |
| | METE TE BA BA BA BA BA | 066RE 90 | 81 | 93 | 85 | 4 | 7 | 23 | 20.0 | , <u>9</u> | 24 | 26 | 63 | 40 | 69 | 92 | 68 | 68 | 63 | 65 | 9 | 96 | 25 | 14 | 745 | • |
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| | ENGINE R IGINE ID GROUND | 09 | 48 | 91 | 8 | 78 | 76 | 73 | 200 | , 40 1 40 | 20 | 25 | 63 | 65 | 99 | 29 | 69 | 6.8 | 69 | 69 | 63 | 9 | 25 | 25 | 8 4 | |
| L (08) | NH SH | 50 | 83 | 69 | 9 | 19 | 22 |) | 62 | 57 | 25 | S S | 9 | 99 | 99 | 69 | 73 | 7.1 | 73 | 68 | 99 | 63 | 23 | 53 | 64 | |
| LEVEL | NE SI | 9 | 85 | 87 | 68 | 62 | * | 73 | \$ 62 \$ 62 | 90 | 61 | 61 | 49 | 99 | 99 | 68 | 7.1 | 20 | 69 | 68 | 99 | 63 | 23 | 5 4 | 20 | į |
| SURE | OPER 703 SIN | eg eg | 88 | 91 | 96 | 9 | 74 | 23 | 0 M | 62 | 63 | 29 | 68 | 7.1 | 71 | 71 | 70 | 69 | 6 8 | 69 | 68 | 65 | 61 | 25 | 25 | |
| PRES FEET | J J J J J J | 26 | 87 | 16 | 88 | 62 | 8 , | 3 ; 0 P | :: | 29 | 99 | 29 | 99 | 99 | 68 | 29 | 29 | 69 | 99 | 99 | 65 | 49 | 61 | 2 6 | | |
| SOUND BAND 25C | e cor | 10 | 48 | 96 | 96 | 92 | 22 | 52 | y 54 | 20 | 22 | 69 | 1 12 | 7.1 | 69 | 29 | 6 5 | 99 | 6 2 | 63 | 63 | 61 | 25 | 53 | 41 | |
| • (| SOURCE/SUBJECT: NOISE SUPPRESSOR | 0 10 | 6.0 | 87 | 87 | 9 | 9 I | | 1 5 | 20, | 69 | 99 | 7. | 7.1 | 20 | 9 | 62 | 64 | 22 | 26 | 52 | 52 | 48 | ‡ | 45 | |
| NORMALIZED 1/3 OCTAVE DISTANCE = | CE/SU | <u>.</u> | | | | | | | | | | | | | | • | | | | | | | | | | |
| | ISE SOURCI A-7 NOISE AF32A-19 | BAND CENTER FREG (HZ) | 5.0 | 63 | 36 | 100 | 125 | 160 | 72 C | 315 | 204 | 500 | 630 | 900 | 00 | 20 | 2 | 90 | 90 | 2 C | <u>ن</u> د. | <u>ت</u> 2 | <u>ت</u> د، | 90 | 000 | |
| TABLES | NOISE A-7 AF3 | BAND (| | _ | - | - | ~ | ā č | v 7 | i | 3 | Š | وَ | Ø, | 1000 | 1256 | 1600 | 2006 | 2 | 31 | ないいの | 5000 | 63¢ C | 900 | 100 | |

XXX = EXTRAPOLATED OR INTERPOLATED SPL

| SECTIVED HOUSE LEVEL (PHOB) AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE TEST 77-33-80. | | | | . ~ - |
|--|-----------------------|---------------------------------|--|-------|
| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE 10.25E SUPPRESSOR (TOR RATION FUNCH FROM SUNCH FR | | 633 61621 A | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| PERCETYES NOISE LEVEL (PNDB) AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE ACCUSE SUPPRESSOR (| 3-801 | z | 0 00000 0000000 0000000000000000000000 | |
| PERCETYES NOISE LEVEL (PNDB) AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE ACCUSE SUPPRESSOR (SINGLE ENGINE | 8.2 77-83 | - 25 - 1 | 9 | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE SUPPRESSOR (STACKE RACINE) HETCOROLOGY: | HEGA EST 7 UN (| IRCRI IRCRI ROFIL B NO | | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE RECESSIONALECTS (OPERATION | 0 - 2 | | | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE RECESSOR (| | 42 | | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE Comparison Compar | | | | |
| AS A FUNCTION OF ANCLE AND DISTANCE FROM SOURCE RCEFSUBLECT: (OPERATION: COPERATION: CO | | 59 9.92 70 08 | | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE **RECEVED-BECT:** **CEFFORD STANCE FROM SOURCE** **RECEVED-BECT:** **COPERATION** **SINGLE ENGINE RUNUP** **SINGLE EN | | ဖွင့ ် | • • • • • • • • • • • • • • • • • • • | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE **RECEIVED NOISE LEVEL (PNDB)** **RECEIVED SOURCE** **RECEIVED SOURD SOURCE** **RECEIVED SOURCE** **REC | | PRE HUM | | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE **RECEIVED NOISE LEVEL (PNDB)** **RECEIVED SOURCE** **RECEIVED SOURD SOURCE** **RECEIVED SOURCE** **REC | | TEORC TEORC BAN REL | 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE RCE/SUBALECT: (OPERATION: RCE/SUBALECT: (OPERATION: (TOX RPH, ENGINE RUNUP (SUPPRESSOR (TOX RPH), ENGINE RUNUP (SUPPRESSOR (SUPPRESSED GROUND RUNUP | | | | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE RCE/SUBJECT: (OPERATION: | | 9. | | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM TOTAL SUPPRESSOR (| ш | UNUP | | |
| AS A FUNCTION OF ANGLE AND DISTANCE FROM TOTAL SUPPRESSOR (| SOURC | NE R | | |
| AS A FUNCTION OF ANGLE AND OT RCE/SUBJECT: (OPER 1139 1 10 20 30 40 95.6 95.7 9 96.5 95.9 96.5 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95 | | ENGINE SED GA | 00000000 | |
| AS A FUNCTION OF ANGLE AND DI RCE/SUBJECT: (OPER OISE SUPPRESSOR (OPER 1-19 (OPER 0 10 20 30 40 92.3 94.0 97.0 97.9 96.5 92.3 94.0 93.6 93.7 94.8 95.1 86.9 94.1 91.1 89.8 95.2 89.8 91.1 91.1 89.8 95.3 84.3 86.0 86.8 84.4 77.2 78.8 89.4 93.5 92.8 82.5 84.3 86.0 86.8 84.4 77.2 78.8 89.4 93.5 72.8 66.5 68.1 69.5 69.4 68.4 77.4 72.4 73.6 73.5 72.8 66.5 68.1 69.5 69.4 68.4 66.5 68.3 69.4 68.4 67.6 73.5 72.8 70.4 72.4 73.5 73.8 70.4 72.4 73.4 73.4 73.4 73.6 73.8 72.8 72.8 72.8 72.8 72.8 72.8 72.8 72 | | K RPH K RPH GCLE E | | |
| AS A FUNCTION OF ANGLE RCE/SUBJECT: OISE SUPPRESSOR 119 0 10 20 30 92.3 94.0 97.0 97.0 97.0 92.3 94.0 94.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95 | DIST | ERAT 76 SI | | |
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| AS A FUNCTION OF RCE/SUBJECT: RCE/SUBJECT: OISE SUPPRESSOR 119 94.5 96.2 97.8 92.3 94.0 95.6 95.9 95.8 99.1 77.2 78.8 99.5 99.1 77.2 78.8 99.5 99.1 77.2 78.8 99.5 99.1 77.2 78.8 99.5 99.1 77.2 78.8 98.8 98.4 77.2 78.8 99.5 99.1 77.4 75.9 75.8 77.3 76.5 66.1 65.9 66.6 56.0 65.9 66.9 56.0 55.9 66.1 78.9 75.9 77.3 78.6 66.9 66.9 78.9 75.9 75.1 78.6 66.9 66.9 78.9 75.1 73.6 78.9 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 75.9 75.1 78.6 | | | | |
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| - AOLE | AS A | AS A FUNCTION OF | L 1L | ANGLE AND | • ~ | NCE | 5 | SOURCE | | | | | | | | OMEGA) TEST | OMEGA 8.2 TEST 77-833-00 | 77-833-001 | |
|---|--|--|---|---------------------------------|--|---|---------------------------------------|---|---------------------------------------|---|---|---------------------------------------|---|------------------------------|----------------------|---|--|------------------------------|--------------------------------------|
| NOISE S A-7 A-7 A-7 | RCE/S OISE -19 | UBJECT : SUPPRESSOR | SSOR | | OPERATIONS 70x RP SINGLE SUPPRE | ATION: 70% RPH, ENGINE RUNUP SINGLE ENGINE SUPPRESSED GROUND RUNUP | ENGINE | NE RUNUP OUND RUN | UNUP | | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | SS CO | = 29. = 29. | 59 F 92 IN H 70 % | | AIRCRA OPERAT PROFIL 28 NOV | UZ RAFT RATIO FILE 40V 7 | C00E C00E ERSIO | 633 01021 f A |
| DISTANCE (FEET) | .a | 3 | 82 | 30 | 3 | 20 | 63 | 7.0 | ANGLE 83 | | (DEGREES) 90 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 87 |
| 250 | 95.8 | | 96.2 | ~ ふっ | 97.6 | 96.8 | 95.5 | 97.1 | 92.9 | 96.2 | 96.8 | 94.5 | 94.8 | 95.6 | 91.9 | 90.1 | 85.6 | 90.4 | 86.8 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7 | 86.4 86.4 86.4 86.4 86.4 86.4 86.4 | 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | * O * 40 * 40 | , | 89.9 87.4 82.8 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 8 8 9 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 8 2 4 6 5 5 6 6 5 5 6 6 6 6 6 6 6 6 6 6 6 6 | 866.7 86.7 84.7 | 85.0 82.0 74.1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 78.4 | 100 AV | 79.2 |
| 12.08 12.50 16.60 20.00 25.00 | 78.6 75.3 71.7 67.9 | 78°8 75°8 72°1 68°1 | 61. 77. 74. 70. 65. | 69.4 659.4 | | 79.1 76.1 72.8 69.2 65.2 | 76.1 75.1 71.2 67.0 | 79.6 76.6 72.9 69.4 65.3 | 77.6 74.5 70.7 66.5 | 79.2 76.2 72.4 68.1 63.3 | 80.0 77.1 73.2 68.9 | 77.7 74.7 70.8 66.4 | 77.5 74.1 70.4 66.2 | 78.3772.11 | | 72.7 69.6 66.3 62.6 | 50.00 50.00 50.00 55.00 | 72.9 69.8 66.5 68.7 | 71.0 67.9 64.4 68.6 |
| 845 6000 60000 60000 | 600 300 300 300 300 300 300 300 300 300 | | 61.0 55.0 40.1 36.0 | 90000 | 666. 44. 44. 44. 44. 44. | 0 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 56.2 52.9 34.6 31.0 | 60.9 55.4 41.6 33.1 | 55.5 45.6 29.1 29.0 | 58.0 458.4 37.4 26.8 | 59.55 50.55 34.55 50.45 50.45 50.45 50.45 50.55 | 50.2 43.8 36.3 26.3 | 57.6 52.1 45.2 37.1 | 59.9 54.1 39.8 31.6 | 24.5.2 | 70°00'00'00'00'00'00'00'00'00'00'00'00'00 | 104 80. 104 80. 104 90. 104 90. | 53.6 34.1 34.1 22.6 | 50.0 44.0 25.6 14.0 44.0 |
| 14864 12530 16000 24600 25600 | 31. 2 21. 6 7. 4 | 36.1 | 27.4 16.2 5.1 | 36. 20. 4.0 8.0 8.0 | 8 % 6 % 8 % | 24.0 | 20.9 10.7 | 20.8 8.7 | 16.5 4.3 | 18.3 7.9 | 19.6 8.2 | 17.9 7.4 | 20. 10.0 1.0 | 7.3 | 16.4 3.3 | 13.5 3.5 | • 5 | • | 1.3 |

| | 1021 A | 2 | 71.3 | 1.7 | 6.0 | | 199 | | 3.0 | 50.5 | 7.7 | 9 | , | 2.5 | 7.7 | 3.6 | 4 | 15.1 | 1.2 | 7.7 | 4.6 |
|--|---|--------------------|------|-------|------|--------------|--------------|-------|------|------|----------|------------------|-------|------|------|-------|-------|-------|-------|-------|-------|
| ON: | 40 Gs | i | * " | | 11 | | | • | | ۰ | ω. | • (| P 6 | | 100 | _ | | | | _ | _ |
| ATIONS 22 333-00 | CODE N CODE Version 9 | 170 | 74. | 2 | 67.6 | 3 | 69 | ¥ | 5 | 52 | 6 | 9 | Ž | 32 | 30. | 56 | 24. | 16.4 | 77 | , | 'n |
| DENTIFICATI OMEGA 8.2 TEST 77-833 | AIRCRAFT OPERATION PROFILE V 28 NOV 79 | 160 | 72.6 | 68.3 | 66.1 | 61.5 | 59.0 | F. F. | 53.0 | 50.0 | 61.9 | 9 | 37.1 | 32.9 | 28.3 | 24.0 | 2.62 | 15.0 | 10.5 | 6.3 | 2.5 |
|) IDENTI | P S S S S S S S S S S S S S S S S S S S | 150 | 75.2 | 40.0 | 68.7 | 64.1 | 61.7 | F. 2 | 56.6 | 53.8 | 50.8 | 5.2 | | 36.0 | 31.4 | 56.9 | 22.1 | 17.2 | 12.5 | 8.3 | 9. |
| 1 | 9 | 140 | 78.0 | 73.7 | 71.5 | 67.0 | 9.49 | | 59.5 | 56.7 | | * | | 38.9 | 34.3 | 59.6 | 24.5 | 19.3 | 14.5 | 10.3 | 7.0 |
| | r H X | 130 | 79.5 | 75.2 | 73.0 | 68.4 | 66. 0 | 67.E | 6.09 | 58.1 | 55.1 | 51.9 | 10.4 | ¥0.4 | 36.2 | 31.6 | 26.6 | 21.4 | 16.1 | 11.2 | 7.1 |
| | 29.92 29.92 70 | 120 | 77.9 | 73.7 | 71.5 | 67.0 | 64.7 | 6.0.2 | 59.6 | 56.8 | 53.6 | 20.0 | 4 4 5 | 39.4 | 35.0 | | 26.0 | 21.2 | 16.5 | 12.4 | |
| | SS = | 110 | 77.6 | 73.4 | 71.2 | 66.8 66.8 | 64.5 | 6.67 | 59.6 | 56.6 | 53.5 | | , o | 36.5 | 34.0 | 29. 8 | 25.6 | 21.5 | 17.7 | 14.5 | 11.6 |
| | METEOROLOGY TEMP BAR PRE: REL HUM DELTA N = | DEGREES) 0 100 | 76.7 | 74.5 | 72.3 | 67.8 | 65.5 | 6.7.4 | 60.0 | 57.6 | 54.5 | 51.5 | 67.0 | 39.5 | 34.9 | 30.5 | 26.0 | 21.7 | 17.9 | 14.6 | 11.7 |
| | | - 6 | 76.5 | 74.2 | 72.0 | 67.5 | 65.1 | 7 63 | 9 | 57.1 | 54.0 | 200 | 47.5 | 39.0 | 34.5 | 36.1 | 25.7 | 21.3 | 17.3 | 13.8 | 10.8 |
| | NUP | ANGLE | 78.7 | 7 % 4 | 72,2 | 67.6 | 65, 1 | 7 7 7 | 60.0 | 57.6 | 53,9 | |) o | 36.7 | 34.1 | 29.6 | 24.9 | 20.4 | 16.4 | | 10.0 |
| SOURCE | . ~ | 2 | 60.5 | 76.2 | 74.0 | 69.3 | 66.9 | 4.44 | | 58.8 | 22.7 | 4.26 | 0 4 | 40.7 | 36.1 | 31.4 | 26.6 | 21.8 | 17.3 | 13.5 | 10.3 |
| FROM S | | 09 | 79.5 | 75.2 | 73.0 | 6.0 | 62.3 | 4.2.4 | 60.6 | 57.9 | 24.0 | 71.0 | 40.0 | 40.1 | 35.6 | 31.1 | 26.5 | 21.7 | 17.3 | 13.4 | 10.2 |
| (DBA) | PERATIONS 76% APH SINGLE SUPPRES | 20 | 82.2 | 77.8 | 75.6 | 70.9 | 68.5 | 66.0 | 63.2 | 69.3 | 57.2 | | 46.4 | 42.2 | 37.6 | 32.9 | 27.9 | 22.9 | 19.1 | 14.0 | 10.5 |
| و ت | OPERATIONS 76x RP Single Suppre | : 3 | 81.3 | 77.0 | 74.7 | 70.0 | 67.6 | 6. A. | 62.3 | 59.4 | 56. S | ٠ د د د | 45.4 | 41.5 | 37.0 | 32.4 | 27.6 | 22, 7 | 17.9 | 13.6 | 10.1 |
| SOUN | | × | 82.5 | 3 | | ; 4 | ÷ | | 'n | 6.89 | | į. | | 'n | | ķ | å | 25.9 | + | å | 12.4 |
| GRAL OF | g | 20 | 81.2 | 76.9 | 74.7 | 70.7 | 67.6 | 6. 4 | 62.5 | 59.6 | 56.6 | , , , | 46.1 | 42.0 | 37.6 | 33.5 | 29.2 | 24.8 | 20.4 | 16.2 | 12.5 |
| A-WEIGHTED OVERALL AS A FUNCTION OF A | SUPPRESSOR | 97 | 90.6 | 76.3 | 74.2 | 69.7 | 67.4 | 6.6. | 62.4 | 59.8 | 57.0 | ÷ . | 47.1 | 43.2 | 36.6 | 34.9 | 30.6 | 26.8 | 21.2 | 16.3 | 11.7 |
| | 986 | • | 79.6 | 75.4 | 73.3 | 69.9 | 66.7 | 5.4.3 | 61.8 | 59.5 | | 10.00 10.00 | 1000 | 43.6 | 36.8 | 34.8 | 30.5 | 25.8 | 20.8 | 15.7 | 11.0 |
| | (NOISE SOURCE/S | OISTANCE (FEET) | 208 | 315 | 96 | 636 | 900 | 404 | 1250 | 1600 | 2000 | 22 62 | 37.76 | 2006 | 6380 | 0000 | 18000 | 12506 | 16000 | 20000 | 25080 |

| • | | | 40 2 | | AND DIS | ij | FROM S | SOURCE | | , | , | | | | | TEST | 77-63 | 77-633-601 | |
|--------------------|------------------------|--------|---------|-------------|-------------------|---|---|---------------------------------------|--------------|--------------|--|---------------------------------|------------------------|--|-------|---|-------|---|-----------------------|
| OISE AF | RCE/ 101 SE 1-19 | SUBJE | SOR | | OPERA | RAIION: 70% RPH, ENGINE RU SINGLE ENGINE SUPPRESSED GROUND | FENGINE SED GR | NE RUNUP OUNG RUN | RUNUP | | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | SS - | # 59 #29.92 # 70 | 20 F F F F F F F F F F F F F F F F F F F | | AIRCRAF OPERATI PROFILE 26 NOV | 6 8 | C00E C00E R010 | 633 01021 N A J |
| (DISTANCE (FEET) | ų. | 70 | 50 | 36 | 3 | 50 | 9 | 92 | ANGLE | | (DEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 176 | 180 |
| 1 200 | 8.0.9 | 90 | 61.6 | 6 2. | 81.8 | 82.2 | 79.5 | 81.7 | 78.7 | 79.5 | 80.2 | 77.6 | 78.9 | 91.1 | 76.0 | 75.2 | 72.6 | 75.4 | 72.9 |
| 315 | 78.8 | | 2,2 | 80. | | 80.0 | 77.4 | 79.5 | 76.6 | 77.4 | 78.0 | 75.5 | 76.8 | 79.0 | 75.9 | 73.1 | 70.5 | 73.3 | 70.6 |
| 684 | | 6 74.2 | 75. | 7.5 | 'n | 75.6 | 73.0 | 75.1 | 72.2 | 73.0 | 73.7 | 71.2 | 72.5 | 9.4. | 71.5 | 66.7 | 66.1 | 69.9 | 9 |
| (05) | 72.5 | | 73 | 73, | 'n | 73.3 | 7.07 | 72.8 | 69.6 | 70.8 | 71.5 | 69.1 | 70.3 | 72.4 | 69.3 | 66.5 | 63.8 | 9.99 | 64.3 |
| 630 | 70.3 | 3 69.7 | 70.7 | 71.2 | 78.5 | 70.9 | 68.3 | 70.5 | 67.6 | 68.5 | 69.2 | 66.8 | 68.0 | 70.1 | 67.0 | 64.1 | 61.5 | 64.2 | 62.0 |
| | | | | 0 | 8 | | | • | | 100 | | • | 100 | | • | • 10 | 23.6 | • | 24.0 |
| 1000 | 65.7 | | 65 | 99 | | 65.9 | 63.4 | 65.5 | | 63.6 | 64.5 | 62.2 | 63.3 | 65.2 | 62.1 | 59.5 | 56.5 | 3.65 | 57.2 |
| 1250 | 63. | | 63 | 63 | | 63.2 | 60.8 | 62.8 | 919 | 61.0 | 61,9 | 29°6 | 9.09 | 62.5 | 59.5 | 90.0 | 53.8 | 56.5 | 54.6 |
| 1900 | 57.8 | 57.0 | 57.2 | 57,9 | 5.5 5.4 5.4 | 57.5 | 56.8 | 59.9 | 0 % S | 55.1 | , d , d , d | 50° 50° 50° 50° 50° | 57.8 | 59.7 | 56.7 | 53.8 | 50.0 | 53.7 | 51.7 |
| (2563 | 54. | | 53 | 5 | | 53.9 | 51.5 | 53.5 | 50.5 | 51.7 | 52.6 | 50.1 | 51.6 | 53.6 | 50.4 | 47.5 | 4.6 | 4.24 | 45.3 |
| 3150 | 51.7 | | 56. | 51. | 50.0 | 50.3 | 48.0 | 50.0 | 6 • 9 | 48.1 | # 8° 0 | 46.5 | 48.2 | 50.5 | 6.94 | 44.0 | 41.0 | 44.0 | 41.8 |
| - 10 C | | 1.24 | 9 | - | | 46.4 | 44.2 | 45.9 | 43.0 | ; | 6 ° 6 | 42.6 | 44. | 46.1 | 43.4 | 40.2 | 37.1 | 91 | 37.6 |
| 6330 | 30.00 | | , K | , c | 37.2 | 37.6 | 4 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 36.1 | 9 6 | | 36.0 | 3 40 | 41. A | 36. W | 3 4 6 6 | 2 | - O - O - O - O - O - O - O - O - O - O | 23.6 |
| 9009 | 35.1 | 1 34.9 | 8 | 35 | 32.5 | 32.9 | 31.1 | 31.7 | 29.6 | 36.3 | 30.8 | 29.8 | 30.8 | 31.9 | 29.6 | | 24.0 | 26.3 | 23.9 |
| 4::0::, | • | | 6 | • | | | | ò | | | , | į | ; | ; | i | ; | • | | • |
| | 25.5 | 26.0 | Š | | 22.7 | 20.00 | 24.7 | 24.5 | | 7.67 7.64 | 21.7 | 22.5 | 21.0 | 20.0 | | 1 2 2 2 | 1 % T | 46.4 | 1 6 |
| 16000 | 20. | 8 21.2 | | 210 | 17.9 | 1001 | 17.3 | 17.3 | 16.4 | 17.3 | 17.9 | 17.7 | 16.5 | 16.1 | 14.5 | 12.5 | 10.5 | 11.5 | 11.2 |
| (2000 | 15.7 | | 16. | 16. | 13.6 | 14.0 | 13.4 | 13.5 | 13.0 | 13.8 | 14.6 | 14.5 | 12.4 | 11.2 | 10.3 | 9.3 | 6.3 | 7.0 | 7.7 |
| (25000 | | 0 11.7 | 12. | 12. | 10.1 | 10.5 | 10.2 | 10.3 | 10.0 | 10.8 | 11.7 | 11,6 | 9.0 | 7.1 | 7.0 | 4.6 | 2.5 | 3.2 | 4.6 |
| J | | | | | i | ļ | | | | | | | | 1 . | | | | | i |

| MEST SUPPRESSOR (OP-RATIOR ENGINE NUMB) RELEGION SUPPRESSOR (STATE PRINTE NUMB) RELEGION SUPPRESSOR (STATE NUMB) RELEGION | | DIST | DISTANCE | 250 | FEET | | | | | | | | | | | | TEST | A 8.2 77-63 | 77-633-001 |
|---|----------|------------------------|----------|---|------|-----|----------------------------------|-----------------|----------------------------|-----|------|---------------------------------|-------|------|------|------------|------------------------------|--------------------------|----------------------|
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | URCE/ NOISE A-19 | SUB, | JECT 8 PPRESSOR | | | TONE TONE SINGLE SUPPRE | H, ENG ENGIN | INE RUNU IE ROUND RU | 4 N | HETE | TEMP TEMP BAR PI REL H | נים ט | 29. | FMX | | AIRC PROF PAGE PAGE | RAFT RATION TLE VI | C00E C00E RS10 |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | , | | • • • • • • • • • • • • • • • • • • • | | 4 | الـ ٦ | | | A | • | | | | TEAL | | | | |
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| AF32A-19 AF32A-19 AF32A-19 AF32A-19 AF32A-19 AF32A-19 AF32A-19 ANGLE SUPPRESSOR ANGLE NGINE ANGLE NG | HETEOR TEMP BAR DELTA DECREES | DLOGY! | | | Z Z Z | 33 | |
|--|---|--------------|---------------------------|--------|--|-----------------------|--------------------------|
| ANG ANG ANG ANG ANG ANG ANG ANG | DEGREE 90 1 | | = 29,92 = 70 0.0 DB | F N X | AIRCRAFT OPERATIO PROFILE 28 NOV 7 PAGE C3 | COD N COD VERSI | E 833 E 31818 On A |
| 3 83 84 85 84 85 83 85 84 85 84 85 84 85 </td <td></td> <td>S) (6 110</td> <td>120</td> <td>130 14</td> <td>0 156</td> <td>160 17</td> <td>0 180</td> | | S) (6 110 | 120 | 130 14 | 0 156 | 160 17 | 0 180 |
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| 90 < | | ، ب | 22 | | | | ~ I |
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| 3 80 79 82 83 82 78 77 77 79 77 77 77 77 77 77 77 77 77 77 | | 9 | 78 | ~ | | | Φ |
| 1 79 79 62 83 65 81 80 9 76 77 80 80 79 77 77 7 75 77 79 77 75 74 74 3 71 74 74 73 72 69 70 8 67 70 69 68 67 66 67 6 65 65 65 63 63 63 | | 9 | 11 | _ | | | ٩ |
| 9 76 77 80 80 79 77 77 77 77 77 77 79 77 75 74 74 74 73 72 69 70 8 67 66 67 65 63 63 63 63 63 63 63 63 63 63 63 63 63 | | S | 25 | ~ | | | ٩ |
| 7 75 77 79 77 75 74 74 74 3 71 75 74 74 74 3 72 69 70 8 67 66 67 65 63 63 63 63 63 63 63 63 63 63 63 63 63 | | • | 7. | ~ | | | Φ |
| 3 71 74 74 73 72 69 70 8 67 70 69 68 67 66 67 6 63 66 66 65 63 63 9 63 64 65 65 63 63 | | 2 | 69 | 9 | | | 9 |
| 6 67 70 69 68 67 66 67 5 63 66 66 65 63 63 63 | | m | 99 | 9 | | | w |
| 5 63 66 66 65 63 63 63 5 68 64 68 65 63 63 63 | | • | 62 | 9 | | | S. |
| 20 CB C4 CB CD CD CC | | m | 25 | w | | | 4 |
| 96)6)6 19 19 10 96 7 | | 2 | 20 | S | | | 3 |
| OVERALL 99 100 99 98 96 94 93 94 93 | 26 | 91 91 | 16 | 91 9 | 1 91 | 96 | 98 |

| TABLES | į | PERCEIVED NOISE | , |) ~ | PN08) | Ì | | | | | | | | ; ; | |) IDENTI | DENTIFICATION OMEGA 8.2 | NO 1 | |
|---|------------------------------|------------------------------|--------------------------------------|--|--|---|--|-----------------------------------|-------------------------|------------------------------------|---|-----------------------------|---|-----------------------------|----------------------|--|------------------------------|----------------------|----------------------|
| NOISE S | OURCE/S NOISE 2A-19 | SUBJECT I | | A SEC | COPERATIONS COPERA | RATIONS BSX RPH SINGLE SUPPRES | ATION: ATION: ASTRON. ENGINE RUNUP SINGLE ENGINE SUPPRESSED GROUND RUNUP | INE RUNDP | do No | £ 0 | METEOROLOGY TEMP BAR PRE REL HUM | LOGY: PRESS HUMIO | = 59 = 29,92 = 70 | N H C | | AIRCRA DAIRCRA DOPERAT PROFIL PAGE | RAFT RATION TILE VE | CODE | 633 01018 |
| DISTANCE (FEET) | E 0 | 10 | 92 | 98 | 3 | 50 | 9 | 7.0 | ANGLE | 90 | DEGREES) 0 100 | 110 | 1 7 | 130 | 146 | 150 | 16 | 170 | 186 |
| 200 | 107.4 | 109.9 | 189.3 | 189. 167. | | | .± 010 | | o m e | 161.3 99.1 | 100.7 98.5 | ~ 10 0 | | | M @ f | 101.9 99.6 | 94.8 | 95.7 | 93.7 |
| 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 101.00 | | 102.7 | 1005 | 100 100 100 100 100 100 100 100 100 100 | 101. 101. 98.9 | 96. 96. 7. 7. 4. | 161 98 96 96 96 96 | 96.46 | 9.0 | 93.0 | 98. 98. 98. 98. | 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 94.3 | 93.4 | 95.0 | 90.1 | 96.7 | 96.7 |
| 9 0 0 | 93.5 | 95.9 | | | | | | | 89.0 | 86.7 | 86.1 86.1 | 86. 4. U | 96.6 | 84.9 86.6 | 85.9 | 87.1 | 82.3 | 91.0 | 79.0 |
| 1000 | 98.7 67.7 84.3 | | | 910 | 91.1 | 90.0 | 87.9 84.8 81.5 | 88.2 85.1 81.7 | 86. 1 83. 1 79. 7 | 83.9 80.8 77.4 | 83.4 80.4 77.2 | 83.6 80.7 77.6 | 83.8 80.9 77.7 | 83.8 80.7 77.5 | 83.1 80.2 77.1 | 64.3 81.3 76.1 | 79.5 | 76.2 75.1 71.6 | 76.2 73.1 69.6 |
| 2000 | 80.6 76.4 | | 12. | 85. 76. | 81.2 | 86.9 | 77.8 | 78.1 74.6 | 76.1 72.0 | 73.8 | 73.8 | 74.3 | 74.3 | 74.2 | 73.8 | 74.7 | 69.7 | 66.3 | 66.1 |
| 0000 1000 1000 1000 1000 1000 1000 100 | 72.1 67.7 62.9 | 75.1 | 72. 67. | 74.2 69.7 64.0 | 7 6 9 8 8 8 | 72.3 67.2 61.6 | 69.64.00 64.00 64.00 | 6.0 6.0 6.0 6.0 | 67.6 62.9 57.6 | 65.8 61.1 55.9 | 65.6 56.6 55.6 | 66.3 61.7 56.5 | 66.4 61.8 56.6 | 66.2 61.6 56.8 | 65.8 61.2 56.1 | 66.7 62.1 57.1 | 61.7 56.8 51.6 | 60°2 55°4 49°9 | 57.5 |
| 63.00 | 57.8 | | 57. | 50.00 | 57.9 52.6 | 55.9 | 53.1 | 1000 | 52.0 | 50.4 | 50.1 | 50.7 | 50°0 | 51.3 | 50.4 | 51.4 | 45.6 | 43.7 | 40.9 |
| 16868 12500 16860 20860 25060 | 49.0 43.4 37.4 21.8 | 51.8 46.6 40.9 34.2 | 47.7 42.0 36.2 29.8 20.3 | 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 46 40 40 40 40 40 40 40 40 40 40 40 40 40 | 44.0 36.7 27.9 15.1 | 41. 33. 23. 10. 10. | 42.6 35.1 24.3 7.7 | 22° 3 20° 4 8° 6 | 37.9 30.0 15.3 2.5 5.3 | 37.2 29.4 15.2 1.1 | 37.7 38.0 16.2 2.4 | 38.9 31.5 21.3 11.1 | 39.2 31.1 20.4 9.7 | 38.0 30.4 4.5 | 33.00 34.00 1.90 6.8 | 32.1 22.0 12.0 .2.0 | 30.0 20.6 10.2 | 26. 5.6. 5.8. |
| | | | | | | | | | | | | | | | | | | | _ |

| | | | FUNCTION OF / | ANGLE | AND DIS | DISTANCE | FROM SOURCE | OURCE | | | | | | | | OMEGA | 5A 8.2 77-833-001 | 3-001 | |
|-------------------------|-------------------------|------------------------|---------------|--------------|---------|----------|-------------|-------|-------|-------|---|---------------------------------------|-------------------------|----------------|---------------------------------------|---|--|-----------------------|-------------------|
| NOISE SO A-7 AF32 | URCE/S NOISE A-19 | SUBJECT: SUPPRESSOR | SOR | . 1 | 0 P R R | , z, v) | 4 ENGINE | | RUNUP | | METEOROLOGY TEMP BAR PRES REL HUM1 | LOGY: | = 59 = 29,92 = 70 | 9 F 2 IN HG | · · | -) RUN 03 OPERATI PROFILE PAGE E | RUN D3 AIRCRAFT OPERATION PROFILE VEI 26 NOV 79 PAGE E3 | SODE SODE SSION | 6 33 0 1 6 1 8 |
| (DISTANCE (FEET) | | 10 | 2 | 30 | 3 | 50 | 69 | 0,2 | ANGL | 9.0 | EGREES) 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 108.7 | 11101 | | 110 | 110.1 | . | | 106.8 | 104.3 | | J 0 | * | -4 - | 102.4 | me | 102.6 | 98.1 | 1.26 | 93.7 |
| 315 | 404 | 166.8 | 166.5 | | | | 102.2 | 162.3 | 9.66 | 26 | 96.9 | 96.9 | 96.5 | 97.9 | 95.7 | 196.1 | 93.5 | 91.1 | 89.1 |
| | 102.2 | 104.6 | | 103 | 10% | ~ 4 | 99.8 | 100.0 | 97.4 | | 94.5 | 94.6 | ~ « | 95.5 | * = | 95.7 | 91.2 | 86.7 | 66.7 |
| 630 | 97.4 | | | 96 | | | 9.46 | 95.0 | 92,5 | | 89.5 | 69. 7 | , m | 90.5 | 'n | 90.6 | 96.1 | 93.7 | 61.7 |
| 600 | 94.8 | | | 96 | 95,6 | • | 92.1 | 95•3 | 89.7 | | 86.9 | 87.1 | • | 87.8 | σ. | 67.9 | 63.4 | 91.0 | 79.1 |
| 1000 | 91.9 | | 93.8 | 93 | 92.7 | 92.5 | 89.2 | | 86.9 | 8 . 3 | 84.1 | 84.4 | 83.8 | 85.0 | 63.1 | 85.0 | 80.5 | 78.2 | 76.2 |
| 1250 | 88.9 | 91. | 96 | 96 | 8 9. 7 | 89.4 | 86.1 | 86.3 | 83.8 | 81.8 | 81.1 | 81.5 | 69.0 | 62.0 | 80.2 | 82.0 | 77.5 | 75.1 | 73.1 |
| 1660 | 85.6 | | 87.2 | | 4 6 | 86.1 | 82° | 82.9 | | 78.4 | 77.9 | 78, 3 | 77.7 | 76.8 | 77.1 | 78.9 | 74.2 | 71.6 | 69.8 |
| 200 | 77.7 | 80.6 | 79.1 | 6 | | 78.5 | 75.1 | 75.2 | | 71.0 | 70.6 | 71.2 | 70.6 | 71.7 | 70.0 | 71.7 | 60.9 | 64.4 | 61.8 |
| 3150 | 73.4 | 76. | 7403 | 75 | | 73.9 | 74.5 | 70.6 | | 66.8 | 5 9 9 | 67.1 | 4.99 | 67.5 | 65.8 | 67.5 | 62.7 | 5.09 | 57.5 |
| 6 004 | 68. 7 | 71. | 68.6 | 70. | 6 3 9 | 68.5 | 65.0 | 65.6 | | 61.8 | 61.4 | 62, 3 | 61.8 | 62.6 | 61.2 | 62.7 | 57.6 | 55.4 | 52.6 |
| 2000 | 63.6 | 9 | 63,4 | 9 | | 62.6 | 59.3 | | | • | 9.0 | 24.0 | 56.6 | 57.5 | 26.1 | 57.5 | 52.2 | o 1 | 9 |
| 9 0 3 3 6 | 5.00 | 56.4 | 53.0 | 55.6 55.6 | 52,9 | 50.0 | 48.0 | 49.0 | 46° | 44.00 | 44.2 | * * * * * * * * * * * * * * * * * * * | 45.3 | 46.1 | * * * * * * * * * * * * * * * * * * * | 45.7 | 39.7 | 37.7 | 35.0 |
| | | į | • | • | , | 4 | 4 | e e | : | | ; | ; | • | | ; | ; | ; | , | ; |
| 12500 | 43.4 | 46.6 | 12.0 | | 9 6 | 36.7 | 33.0 | 35.1 | 30° | 20.0 | 20.00 | 30.0 | 31.5 | 31.1 | 3 4 0 0 7 M | 200 | 22.1 | 20.0 | 16.1 |
| 16000 | 37.4 | 4.0 | 36.2 | 30 | 31.5 | 27.9 | 21.6 | 24.3 | 20.4 | 16.3 | 15.2 | 16.2 | 21.3 | 20.4 | 17.5 | 19.0 | 12.0 | 10.2 | 2.6 |
| 20800 | 30.0 | 34. | 29.8 | 30. | 21. 4 | 15.1 | 10.1 | 7.7 | 9.0 | 2 | 1.1 | 2 | 11.1 | 4.6 | 4.6 | 9.9 | 2.0 | | • |
| 250.08 | | | | | | | | | | | | | | | | , | , | | |

| | AS A | FUNCTION | ™ | ANGLE ! | AND DISTANCE | | FROM S | SOURCE | | | | | | | | OMEGA | - 2: | 8.2 -833-u01 | |
|---|---------------------------------------|--------------------------------------|------------------------------|----------------|---|--|----------------------------------|--|------------------------------|---|---|---|--|----------------------------------|----------------------|---|--|------------------------------|------------------------------|
| NOISE SO | DURCE/ NOISE 2A-19 | SUPPRET | SSOR | | 0 PER 2 | OPERATION: 0PERATION: 65x RPW, ENGINE SINGLE ENGINE SUPPRESSED GROUN | i, ENGI ENGINE SEO GR | GINE RUNUP NE GROUND RUNUP | anno. | | HETEOROLOGY TENP BAR PRE REL HUN DELTA N ** | PRESS HUNIO | #29. | 59 F 92 IN HG 70 X | | AIRCRAF OPERATI PROFILE 26 NOV PAGE F | N > 6 P | CODE CODE ERSION | 633 01016 A |
| DISTANCE (FEET) | | 10 | 5 0 | 8 | 3 | 20 | 09 | 22 | ANGLE | | (OEGREES) | 110 | 120 | 130 | 27 | 150 | 160 | 170 | 18 |
| 250 | 94.1 | 4.96 1 94.3 | 94.5 | \$ 6 6 6 | | 93.9 | 90.9 | 91.4 | 89.4 87.3 | 85.4 | 85.4 | 65.9 | 86.5 86.5 | 86.3 | 87.8 | 96.9 | 84.0 | 82.3 | 72 |
| 1 0 0 0 0 0 1 0 7 10 0 4 | | | 9 9 9 | | | 87.3 | 85.0 79.6 79.6 | 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 86.0 78.7 78.3 | 7000 | 76.5 | 79.5 | 73.4 | 79.7 | 79.1 76.8 | 82.3 80.1 77.7 | 77.5 | 73.5 | 73.0 |
| 1000 | 78.6 | | 78. | 82 | 200 | 77.5 | 74.5 | 75.1 | 73.3 | 71.6 | | 72.1 | 72.6 | 72.5 | 6.17 | 72.6 | 67.9 | 66.3 | 63.7 |
| 79 00 00 00 00 00 00 00 00 00 00 00 00 00 | W . O . | | 26 | * 7. | m d | 6.00 | 66 68 68 68 68 68 | 69.6 | 6.49 | | 999 | 63.9 | 64.5 | 64.9 | | | 62.6 | 561.1 | 200 |
| 3150 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 66.4 66.4 58.4 | | 65.5 | 4 ~ 0 6 6 6 7 6 6 7 6 6 7 6 6 7 6 6 7 6 6 7 6 7 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 55.4 5.6 5.6 5.6 5.6 | 66.5 56.5 56.5 56.5 56.5 56.5 56.5 56.5 | 56.3 56.3 | 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 50.00 50.00 50.00 50.00 | 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 50.00 50.00 50.00 50.00 | 57.0 54.0 54.0 | 501.0 50.0 50.0 50.0 | 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 70.01 | 52.5 49.2 45.7 |
| 6360 | 52.6 | | 5.0 | W & | 4.04 | 49.7 | 47.2 | 48.2 | 46.3 41.8 | 45.2 | 45.1 | 45.6 | 46.4 | 46.6 | 45.9 41.3 | | 61.5 37.8 | 40.2 | 33 |
| 10800 12598 16400 25888 25888 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 3 41°2 3 36°4 3 31°2 7 55°4 | 41.9 37.5 32.9 28.0 | 4460 | 41.8 36.4 26.7 | 40.1 34.7 28.8 22.6 | 37.7 32.3 26.4 20.4 | 38.7 33.4 27.6 21.6 | 36.9 31.6 25.9 20.6 | 38.4 | 29.9 | 35.9324.324.3 | 200 100 100 100 100 100 100 100 100 100 | 37.137.12.6 25.5 | 36.2 | 34.8 25.1 25.1 | 32.0 26.5 20.5 14.1 | 31.0 25.7 19.9 13.8 | 28.6 23.5 18.1 12.6 |

| | | LONC TON | N PO | ANGLE A | 2 | DISTANCE | FROM S | SOURCE | | | | | | | | TESI | 77-8 | 13-001 | |
|--|----------------------|--|---------|-------------|---------------------------------|---|----------------------------|--------|--------------|------|--|-------------------------|---------------|-----------------------|--|--|---|-----------------------|-------------------|
| NO15E SC A-7 AF32 | RCE/S OISE -19 | RCE/SUBJECT: OISE SUPPRESSOR -19 | SOR | | OPERA RA S S S S | RATION: 85% RPM, ENGINE RU 81NGLE ENGINE SUPPRESSED GROUND | ENGINE ENGINE SED GR | | NUP RUNUP | | ETEOROLOGY TEMP BAR PRE REL HUM | LOGY: PRESS HUMID | # 5 # 29.9 | 9 F 2 IN HG 0 % | | AIRCRAF AIRCRAF OPERATI PROFILE 28 NOV PAGE (| RUN 03 AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE G3 | CODE CODE RSION | 633 01018 A |
| DISTANCE (FEET) | | 10 | 10 20 | 30 | 3 | 36 | 60 | 92 | ANGL | | (DEGREES) | 116 | 12n | 136 | 140 | 150 | 160 | 170 | 180 |
| 200 | 95.4 | | 96.1 | | ů. | 95.5 | 92.1 | 95.6 | 90.2 | 88.5 | 88.3 | 88.7 | 88.5 | 69.6 | 87.8 | 9.69 | 95.0 | 82.3 | 79.5 |
| 253 315 | 93.5 | 95°6 | 94.0 | 95.2 | 96.4 | 93, 3 | 90.0 87.8 | 9 E. 4 | 86.1 | 86.4 | | 86.6 | 86.3 | 87.5 | 85.7 | 87.5 | 82.9 | 60.1 78.0 | 77.4 |
| 003 | 89.2 | | 89.7 | | ið | 68.9 | 85.6 | 86.1 | 83.7 | 82.0 | | 82.2 | 82.0 | 63.2 | 61.3 | 63.1 | 78.5 | 15.8 | 73.0 |
| | 97.0 | | 87.5 | | ٠, | 86.6 | 83.3 | 83.8 | 81.4 | 79.8 | | 80.0 | 79.7 | 80.9 | 79.1 | 80.8 | 76.3 | 73.5 | 70.8 |
| 9 00 00 00 00 00 00 00 00 00 00 00 00 00 | 82.3 | 84.4 | 82.5 | | ŝ | 81.7 | 7 9 6 7 | 78.9 | 76.6 | 75.0 | 7.5.2 | 75.3 | 75.0 | 76.2 | 0 * • • • • • • • • • • • • • • • • • • • | 76.1 | 71.5 | 71.2 68.8 | 66.1 |
| | | | | | | | | | | | | | | | | | | | |
| 1000 | 79.9 | 82.0 | 6.62 | 81.4 | 80° | 79.1 | 75.8 | 76.4 | 74.1 | 72.5 | 72.3 | 72.8 | 72.6 | 73.0 | 71.9 | 73.6 | 69.0 | 66.3 | 63.7 |
| 1256 | 77.3 | | 77.1 | 7 8.8 | 77.7 | 76.4 | 73.1 | 73.7 | 71.4 | 69.9 | 69.7 | 70.2 | 70.0 | 71.2 | 69°4 | 71.0 | 66.4 | 63.8 | 61.1 |
| 2000 | 71.7 | 73.9 | 71.2 | 73.3 | 71.9 | 70.5 | 67.2 | 67.9 | 65,6 | 96 | 64.1 | 64.6 | 6.5 | 65.7 | 63.9 | 65.4 | 60.0 | 58.3 | 55.6 |
| 2500 | 68.6 | | 67.8 | 70.3 | 68.7 | 67.3 | 64.0 | 64.7 | 62.5 | 61.2 | 61.1 | 61.5 | 61.4 | 62.7 | 6.09 | 62.4 | 57.7 | 55.5 | 52.5 |
| 3150 | 65.2 | | 64.2 | 67.0 | 65.3 | 63.8 | 69.6 | 61.4 | 59.1 | 57.9 | 57.7 | 58.2 | 58.5 | 59.5 | 57.6 | 59.1 | 54.4 | 52.0 | 49.2 |
| 30.04 | 61.3 | | 60.0 | 63.1 | 61.2 | 29.1 | 56.6 | 57.5 | 55,3 | 54.5 | 54.0 | 54.5 | 24.7 | 55.7 | 54.1 | 55.4 | 50.7 | 48.4 | 45.7 |
| 54.00 | 57.0 | | 55.5 | 50.00 | 96° | 55.5 | 52,3 | 53,0 | 51,1 | • | 6,64 | 50.4 | 50.8 | 51.6 | 20.5 | 51.3 | 46.5 | 44.5 | 41.7 |
| 3000 | 200 | | | 4 | 200 | 700 | 7.574 | 9 | 9 6 | | 4 10 | 62. | 9 . | 47.2 | 62.6 | 46.8 | 41.9 | 40.5 | 37.5 |
| | ? | | | - F + | 1 | • • • • | * * * * | • | | • | • | 41. | * 5 | * * * | ? · · · · · · · · · · · · · · · · · · · | * C• 1 | 21.6 | 22.0 | 33.6 |
| 1.000 | 43.9 | | 41.9 | ; | 41.8 | 40.1 | 37.7 | 38.7 | 36.9 | 35.7 | | 35.9 | | 37.1 | 36.2 | 36.8 | 32.0 | 31.0 | 28.6 |
| 12500 | 39,3 | | 37.5 | ė | 36.4 | 34.7 | 32, 3 | 33.4 | 31.6 | 30.3 | 29.9 | 30.4 | | 31.6 | 30.6 | 31.3 | 26.5 | 25.7 | 23.5 |
| 16336 | 34, 3 | | 32.9 | 34.8 | 30.7 | 28.8 | 26.4 | 27.6 | 25.9 | 54.4 | 23.8 | | 25.5 | 25.5 | 24.4 | 25.1 | 20.5 | 19.9 | 18.1 |
| 20000 | 29.6 | | 28.0 | å | 24.7 | 22.6 | 20.4 | 21.6 | 20.0 | 18.2 | 17.5 | 17. A | | 19.0 | 17.9 | 18.6 | 14.4 | 4 7 F | 12.6 |
| | | | | | | | | , | | , | | | | | |) | 4014 | , | ,,,, |

| NOISE SC A-7 AF35 | 01 | STA | DISTANCE | ~ | 250 F | FEET | | | | | | | | | | | | | | | . ~ | | - '- | 33-0 | 크 |
|-------------------------|------|----------------|----------|-----|--------|------|----------|--|----------------------------------|------------|----------------|--|----------|----|--|---|--------------|----------------------------|----------|-------|-----|---|---|-------|---|
| | NOI: | E/S SE 9 | SUBJEC | ESS | α 6 | | | OPERATIONS 85% RP SINGLE SUPPRE | ION 1 X RP 1 NGLE PPRES | ENGI! | INE I | ATIONI 85% RPM, ENGINE RUNUP SINGLE ENGINE SUPPRESSED GROUND RUNUP | <u>a</u> | 1 | HETEOROLO TEMP BAR B BAR B REL B | HETEOROLOGY I TEMP BAR PRESS REL HUMID DELTA N = 0. | ပ ဝ ဝ | ± 59,92 = 29,92 = 70 | FHX Z | £ | 1 | RUN 63 ARCRAFT CODE 6 OPERATION CODE 0 PROFILE VERSION 26 NOV 79 PAGE J3 | RUN 63 AIRCRAFT OPERATION PROFILE VI 28 NOV 79 PAGE J3 | CODI | 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 |
| | | | İ | | | | <u> </u> | P=PNLT | | | | | A=AL | AL | | | | | TEALT | - | | | | | 1 |
| | œ | <u>.</u> | | | | | | | | | | | | | | | | | | Į A | | • | | | 773 |
| | 9 | : | • | • | • | • | • | • | · · · | • | • | , , | • | • | • | • | • | • • • | • | • • • | | • • | • | • | |
| | 56 | | | | • • | | • • | | . • • | | • | | • • | | • • | | | | | ۰. | - | • • | | • | ~~ |
| | 30 | _3 | • | • | • | • | • • | • | • | • | • | • | • • | • | • | • | • | • | • | • | AT. | • | • | • | ~: |
| | 9 | | | | • • | | • • | | | | | | • • | | • | | | • • | | | T A | • • | | ۵. | ~ ~ |
| ∢: | 20 | | | | • • | | • • | | - • | | - • | | • • | | •• | | | | | . AT | _ | • • | | • | |
| z o | 9 | د د | • | • | • • | • | • • | • | • | • | • | • | • • | • | • | • | • | • | • | . AT | • | • • | <u>a</u> | • • | -: |
| W | 70 | | | | • • | | • • | | . • | | - • | | • • | | •• | | | | | ۸. | | • • | • | • • | |
| H | 8 | | | | • • | | • • | | - • | | - • | | • • | | •• | | | | A. | | | •• | Q. | • • | |
| Z | 96 | د د | • | • | • | • | • • | • | • | • | • | • | • | • | • | • | • | • | . AT . | • | • | •• | • | • • | ٠: |
| o m | 100 | | • • | | • • | | • • | | • | | | | • • | | • • | | | | AT | | | •• | | • • | ~ ~ |
| | 110 | | | | • • | | • • | | •• | | - • | | • • | | - • | | | | AT | • • | | • • | | • • | |
| | 120 | . . . | • | • | • • | • | • • | • | • | • | • | • | • • | • | • | • | • | • | × | • | • | • | • | • • | ~ ; * |
| | 130 | | • • | | • • | | • • | | • | | . • | | • • | | •• | | | • • | A | • • | | ٠. | | • • | |
| | 148 | | | | • • | | • • | | • | <u>.</u> . | - • | | • • | | •• | | | | × | • • | | • | | • • | |
| ~ | 150 | ٤. | • | • | • | • | • • | • | • | • | • | • | • • | • | • | • | • | • | × | • | • | •• | • | • • | -: |
| • | 160 | | | | • • | | • • | | •• | | | • • | • • | | • • | | | . AT | | • • | 0. | • • | | • • | |
| •• | 170 | | • • | | • • | | • • | | - • | | - - | | • • | | • | | | • × | | • • | • | • • | | • • | |
| | 100 | .:. | • | • | • • • | • | • • • | • | • | • | • | • | • • • | • | • | • | × | • | • | · • · | • | • • • | • | • • • | ••• |
| | | Ţ | 2 | | 202 | | 000 | | 1 | 104 | 50 | 50 | | | | 70 | | 90 | | 96 | | 18 | | 977 | î _ |

| TABLE | LIZE CTAV NCE | SOUND BAND 256 | O PR | š | L E < | (0B) | _ | | | | | | | | | ENTIF MEGA | 1CA 8. | TION: 2 33-001 | |
|--------------------------|---------------------|----------------------|------------|----------------|--|----------|---------|---------------|--------------|------------------------|-----------|-----------------------|---------------------|------------|-------|--|---------------------------------------|----------------------|-------------------|
| NOISE A-7 AF32 | | ~ | i | OPER | RATION: ILLITARY INGLE ECUPPRESS | 9 2 M | NER, 96 | 6% RP RUNU | i | ETE TE BA ELT | A L P C L | 678 SS = 2 ID = | 9.92 7.2 0.08 | F HC X | 70000 | AUN COPERATO | 71 110N C 110N C 1 VER 79 | 00E 00E SION | 833 91004 A |
| BAND CENTER FREG (HZ) | ; ; ; | 3 | 56 | 30 | 64 | 3 | 3 | Z. ANG | 6 83 6 | ω ω | ES) | 110 | 120 | 130 | 9 7 7 | 15. | 166 | 170 | 180 |
| 50 | 68 | 68 | 69 | 96 | 06 | 9 | 68 | 68 | 87 | 87 | 86 | 88 | | 97 | | 8 | 88 | 8 | 80 |
| 93 | 86 | 98 | 86 | 88 | 90 | 96 | 88 | 88 | 83 | 87 | 87 | 96 | | 82 | | 65 | 94 | 81 | 8 |
| | 81 | 81 | 82 | 83 | 83 | 85 | 86 | 89 | 87 | 89 | 96 | ð Þ | | 83 | | 4 | 77 | 75 | 80 |
| 136 | 96 | 94 | 99 | 48 | 83 | † | 48 | 86 | Q Q | 97 | 63 | 49 | | 43 | | 9 | 79 | 90 | 75 |
| 125 | 96 | 8 9 | 87 | 97 | ∞ i | 4 | 81 | 83 | 81 | 81 | 28 | 77 | | 78 | | 9. | 90 | 81 | 5 |
| 160 200 | # 11 10 a | 8 | 92 | # F | 76 | , c | C3 (4 | ဗ ၁ ဂ | 79 | 2,5 | 7 7 | 2: | | ۳ <u>۱</u> | | 23 | 7. | 9 - | m 1 |
| 2 C C | 0 4 |) (| . 6 | 1 6 | . 4 | 7.2 | 0 2 | 0 2 | 9 4 | 7 4 | . r | 12 | - M |) 4 / / | 1.7 | 2 2 | y 5 | 0 0 | 0 M |
| 315 | 1 70 | 80 | 8 | 80 | 5 | 92 | . 62 | . 8 | 22 | 2.2 | . 6 | 1.2 | | 22 | | 72 | 20 | 17 | 72 |
| 904 | 16 | 3 5 | 91 | 85 | 91 | 11 | 49 | 2 | 92 | 2.2 | 7.8 | 2 | | 75 | | 7.3 | 68 | 73 | 7.0 |
| 500 | 92 | 89 | 3 6 | 87 | 94 | 79 | 80 | 7.8 | 7.7 | 7.8 | 7.8 | 11 | | 7.8 | | 7.4 | 20 | 74 | 7.0 |
| 630 | 94 | 98 | 88 | 88 | 40 | 61 | 43 | 79 | 62 | 7.8 | 90 | 62 | | 11 | | 7.4 | 7.0 | 7.4 | 69 |
| 800 | 84 | 48 | 94 | 48 | 83 | 82 | 82 | 61 | 81 | 90 | 82 | 81 | | 80 | | 77 | 72 | 92 | 69 |
| 1000 | 80 | 82 | 83 | 8 | 94 | 83 | 85 | 83 | 95 | 84 | 84 | 83 | | 83 | | 79 | 52 | 11 | 7. |
| 1250 | 11 | 29 | 82 | 83 | 85 | 7 | 85 | 84 | 83 | 85 | 85 | 82 | | 82 | | 80 | 15 | 92 | 7.0 |
| 1600 | 22 | 11 | 82 | 1 8 | 82 | 83 | 83 | 82 | 81 | 81 | 82 | 81 | | 90 | | 18 | 75 | 25 | 69 |
| 2000 | 15 | 23 | 93 | 85 | 85 | 81 | 81 | 6.0 | 43 | 7.8 | 81 | 4 | | 79 | | 78 | 22 | 73 | 99 |
| 2500 | 73 | 80 | † | 3 | 4 | 79 | 8 | 19 | % | 92 | 80 | 23 | | 78 | | 11 | 73 | 73 | 99 |
| 3150 | 73 | 79 | 83 | 83 | 91 | 79 | 43 | 7.8 | 11 | 75 | 77 | 22 | | 11 | | 92 | 72 | 72 | 62 |
| 4000 | 72 | 80 | J | 82 | 81 | 7.8 | 79 | 43 | 78 | 74 | 92 | 75 | | 92 | | 22 | 2 | 7.0 | 9 |
| 5000 | 69 | 11 | 81 | 13 | 28 | 73 | 47 | 22 | 4. | 69 | 73 | 71 | | 73 | | 72 | 29 | 67 | 61 |
| 6306 | 99 | ž | 78 | 22 | 5 | 69 | 7.1 | 72 | 22 | 29 | 7.1 | 3,5 | | 71 | | 20 | 65 | 92 | 58 |
| 3008 | 6 2 | 71 | 74 | 75 | 7 | 49 | 99 | 6 6 | 29 | 62 | 99 | 40 | | 29 | | 65 | 61 | 9 | 53 |
| 1,000 | 58 | 29 | 7.0 | 99 | 99 | 0 | 19 | † | 61 | 26 | 9 | 23 | | 63 | | 53 | 26 | 34 | F 4 |
| OVERALL | 96 | 66 | 66 | 86 | 26 | 96 | 96 | 96 | 95 | 95 | 95 | 95 | 36 | 93 | 95 | 93 | 16 | 96 | 91 |
| | | | | | | | | | | | 1 | | | | | | | | |

| 66 33 8 10 0 4 8 4 6 10 0 4 | 160 | 99999999999999999999999999999999999999 | 77779998348 97779988448 9779999999999999999999999 |
|---|--------------------|--|--|
| : - 13 mm g | 170 | 60 90 80 80 80 80 80 80 80 80 80 80 80 80 80 | |
| DECATION ONEGA 8.2 TEST 77-833-0 RUN 04 AIRCRAFT COD PROFILE VERSI 28 NOV 79 | 160 | 00000000000000000000000000000000000000 | 00000000000000000000000000000000000000 |
| DENTIFIC OMEGA 10 TEST 77- RUN 04- NATRCRAFT OPROFILE PAGE 04-7 | 150 | 99933 9993 9993 9993 9993 9993 9993 | 00040500000000000000000000000000000000 |
| | 146 | 110 00 00 00 00 00 00 01 01 01 01 | 00000 |
| r i x s s | 90 | 11005 1005 1006 1006 1006 1006 1006 1006 | 441-000000 490000 490000 |
| 59 59 70 70 | 20 1 | 94.60 94.60 94.60 94.60 94.60 94.60 94.60 94.60 | |
| OGY: PRESS =2 HUMIO = | - | | MERING NEADMEHRIA |
| ROL WAR KEL | S) 0 110 | 2 100 100 100 100 100 100 100 100 100 10 | |
| HETECO NETECO | (DEGREES) | 7 106 3 107 6 99 6 97 7 94 | |
| _ | 9,0 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | |
| E 62 RPH RUNUP | 48 | 4000000 | |
| SOURCE SOUND | 2 | 107. 108. 108. 97. 95. | 669 772 772 772 772 772 772 772 772 772 77 |
| FROM XY PO ENGI | 9 | 101 100 100 100 100 100 100 100 100 100 | |
| B) DISTANCE F PERATIONS MILITARY SINGLE E SUPPRESS | 50 | 1186.9 1104.7 1107.4 1000.4 97.5 95.0 | |
| AND DIS | 7 | 111100 1100 1000 1000 1000 1000 1000 1 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| י שוֹ | ge S | 4444 4444 4444 4444 4444 4444 4444 4444 4444 | |
| | 10 20 | 1111.6 1109.5 1104.7 1102.2 99.6 | 00000000000000000000000000000000000000 |
| IVED NOISE FUNCTION OF UBJECT I | 10 | 00000000000000000000000000000000000000 | |
| | 0 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| AS A AS | DISTANCE (FEET) | | |
| TABL NOIS | 01ST ((FE | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |

| | | SUBJECT : SUPPRESSOR | | ANGLE A | 오 | DISTANCE | FROM S | SOURCE | | | | | | | | TEST | 77-83 | -833-001 | |
|-------------------------|----------------------|-------------------------|-------|---------|--------|---|--------|----------|----------------|-------|--|----------------|-------------------|--------------|------|---------------------------------------|--|-----------------------|-------------------|
| NOISE SU A-7 AF32 | RCE/S 01SE -19 | | ! | | 9 | RATIONS MILITAR SINGLE SUPPRES | 20 | | Z RPH RUNUP | | ETECROLOGY TEMP BAR PRE REL HUM | PRESS HUMID | #29.95 # 29.99 | 7 X X | 9 | S S S S S S S S S S S S S S S S S S S | AIRCRAFT OPERATION PROFILE VEI PAGE E4 | 000E 000E 2510N | 833 01304 A |
| DISTANCE (FEET) | 9 | 10 | 50 | 8 | 3 | 5.6 | 99 | 7.0 | ANGLE | | (DEGREES) | 110 | 120 | 130 | 346 | 150 | 168 | 170 | 180 |
| 200 | 107.9 | 110.0 | 111.8 | 110 | 109,8 | ~ . | 107.8 | | 166.3 | 164.7 | 106.5 | 105,2 | | 105.1 | | 103.6 | 100.8 1 | 9.00 | 95.9 |
| 315 | 163.6 | 106.4 | 107.2 | 106 | 105.3 | 02.4 | 103.4 | ص ۱ | 161.7 | 100.3 | 102.0 | 100.7 | . ~ | | | 986 | 96.2 | 96.1 | 91.2 |
| 0 0 0 1 | 101. | 104.2 | | ÷ . | 103.0 | ٠. | 131.0 | N a | 99.2 | 96.0 | 99.7 | 98,3 | . | | - | 96.6 | 93.8 | 93.7 | 88. |
| 9 C G | 7 ° 96 | 4.66 | 966 | 665 | 97.9 | | 96. | ۰ م | 96.1 | 93.1 | 96.6 | 900 | . | | a .a | 94.0 | 88.7 | 91.6 | 900 |
| 900 | 94.3 | 90.9 | | 96 | 95.2 | | 93, 3 | L | 91.4 | 90.5 | 91.9 | 90.6 | | | | 88.7 | 85.9 | 85.9 | 80.0 |
| 1030 | 91.7 | 94.4 | 9.46 | m | 92. 4 | 89.6 | 90.4 | 89.6 | 88.5 | 87.8 | 89.1 | 87.7 | 88.2 | 87.4 | 89.0 | | 83.0 | 63.0 | 76.1 |
| 1250 | | 91.6 | 91.1 | 96 | | 86.6 | 87.3 | 86.6 | 85.5 | 84.9 | 86.0 | 84.7 | 85.2 | 84.4 | 86.0 | 82.8 | 80.0 | 80.0 | 75.1 |
| 16.0 | | 88.8 | 88.1 | 87. | 86.2 | 83.5 | 84.0 | 83.4 | 82.3 | 81.9 | 82.9 | 81.5 | 61.9 | 81.1 | 82.8 | 79.6 | 76.7 | 76.7 | 77. |
| 2002 | | | 32.0 | m 0 | 82.7 | 80.1 | 4.00 | 3 . | 78.8 | 76.6 | 79.4 | 78.1 | 78.3 | 7.27 | 79.3 | 76.1 | 73.2 | 73.2 | 68 |
| | | 3.70 | 1010 | | 5 · | • • | 0 0 | ? ; | 2.5 | 15.0 | 200 | * ! | 9 1 | 3 (| 2.0 | 2.27 | 2.69 | *** | |
| 21.26 40.00 | 73.2 | 72.6 | 72.4 | - ~ | · 6 | 67.6 | 6.6.3 | 67.4 | , e | 66.6 | 67.6 | 65.6 | 55.8 | 65.0 65.0 | 67.0 | 63.2 | | 50.5 | 55.4 |
| 5000 | | 67.9 | 67.5 | 9 | 6 4. 9 | 62.6 | 63.5 | 62.4 | 4.4 | 61.9 | 62.6 | 60.7 | 61.0 | 60.5 | 62.1 | 5.0 | 54.5 | 55.5 | 49.5 |
| 6300 | 56.8 | 61.3 | 62.3 | 61. | 59.3 | 57.0 | 58.5 | 57.0 | 56.0 | 56.6 | 57.2 | 55.4 | 52.5 | 55.2 | 56.5 | 52.2 | 47.7 | 50.0 | 43.2 |
| 9000 | | 57.1 | 58.1 | | 54.2 | 52.0 | 52.7 | 51.9 | 5t. 6 | 51.5 | 51.9 | 50.2 | 50.5 | 50.2 | 51.2 | 46.6 | 41.5 | 44.1 | 37.6 |
| 10000 | 56.4 | 52.5 | 53. | å | | 45.7 | 46.8 | | 44.3 | 4.0 | 45.9 | 44.2 | 44.8 | 44.0 | 45.1 | £0.4 | 34.5 | 37.7 | 31.0 |
| 125 u B | 45.2 | 47.8 | 40. | 3 | | 39.5 | 39.6 | | 37.5 | 2 | 39.5 | 37.2 | 38.0 | 36.7 | 36.3 | 32.9 | 24.5 | 30.7 | 25.2 |
| 160 00 | 39.5 | 45.5 | 42.6 | 39.5 | 36, 5 | 31.9 | 32,3 | 30.8 | 29.6 | 29.7 | 31.5 | 29, 5 | 30.1 | 29.5 | 30.4 | 22.7 | 12.5 | 22.3 | 9.6 |
| 20002 | 33.4 | 36.8 | 35 | | | 22.4 | 22.7 | | | 7 0 1 | • | 7 | 4 6 | 1 2 4 | | • | • | • | |
| | | | | | | | | | • | ŗ | 2000 | * 07 | D • D | * 7 | *** | | • | ? | |

| (TABLE: | A-NEIG | HTED 0 | A-WEIGHTED OVERALL | SOUND | LEVEL | (08A) | | | | | | | | | |) I DENTI | | ION | |
|---|--|-------------|--------------------|---------|-------------------------|---------------------------------|--|-------------|-----------------|---------------|--|----------------|----------------------------|--------------|-------------|----------------------|---------------|-----------------------|-----------------------|
| (AS A FUNCTION | AS A F | FUNCTION OF | 9 | ANGLE A | 2 | DISTANCE | FROM SC | SOURCE | | | | | | | | TEST | | -833-001 | • |
| (NOISE SOURCE (A-7 NOISE (AF32A-19 | E SOURCE/SUBJECT A-7 NOISE SUPPRE AF32A-19 | SUPPRESSOR | 8 | | OPER SERVICE | RATIONS MILITARY SINGLE S | ATION: MILITARY POWER, 90 SINGLE ENGINE SUPPRESSED GROUND | ٠.٨ | Z RPH RUNUP | | METEOROLOGY TEMP BAR PRE: REL HUM | PRESS HUMID | # 59.92 # 29.92 # 70 | F X X | - | AIRC OPER PROF | 11.00 T | 000E 000E 3010! | 033 01004 N A D |
| (DISTANCE (FEET) | • | 10 | 20 | 30 | 3 | 20 | 60 | 0,2 | ANGLE | 0. | | 971 | 27 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 93.9 | 96.3 | 97.6 | 2.0 | و ق | 93.9 | 94.7 | 93.7 | 92.7 | 92.6 | 93.8 | 92.2 | 92.6 | α. | 94.0 | 98.1 | 2.98 | 1.2 | 81.4) |
| 315 | 89.7 | 92.0 | 93, | | | 89.5 | 90.3 | 89.4 | 68° | 86.3 | 89.5 | 87.9 | 88.3 | 4 D | o 40 | 85.6 | 61.6 | 82.8 | 77.2 |
| 904 | 87.6 | 69.9 | 916 | å. | ð, | 87.3 | 88.1 | 87.1 | 86.1 | 65.1 | 87.3 | 85.7 | 86.1 | | | 83.5 | 79.5 | 80.5 | 75.0 |
| 989 | 83°9 | 85.5 | 96.0 | 86.1 | 6 5° 7 | 62•1 82•7 | 83.9 | 82.5 | 84. 84. 5 | 61.0 61.0 | 82.8 | 53.4 81.1 | 83.5 | 61.1 | 82.7 | 78.8 | 2.77 | 76.0 | 70.5 |
| 000 | 81.1 | 83.2 | 8 | m | ô | 80.3 | 81.1 | 80.1 | 19.1 | 79.3 | | 78.7 | 79.1 | ~ | ~ | 76.4 | 72.4 | 73.6 | 68.1 |
| 1800 | 78.9 | 80.0 | 81.6 | - | | 77.8 | 78.7 | 77.6 | 76.6 | 76.9 | 77.9 | 76.3 | 76.7 | 76.2 | 77.7 | 73.9 | 64.9 | 71.1 | 65.7 |
| (1250 | 76.5 | 78.5 | 79.1 | 8 | 77.6 | 75.3 | 76.1 | 75.0 | 74.0 | 74.4 | 75.4 | 73.7 | 74.1 | 73.6 | | 71.2 | 67.2 | 68.5 | 63.1 |
| 1608 | 74.1 | 76.1 | 9 | ۰ | 74.9 | 72.6 | 73.4 | 72.3 | 71.3 | 711.7 | 72.7 | 71.0 | 71.4 | 70.9 | 72.4 | 68.5 | 64.4 | 62.9 | 60.5 |
| | 68.5 | 73.6 | | 7 3. 3 | 9 ° 6 2 ° 6 2 ° 6 | 69°8 | 67.5 | 69.5 | 68. 5.5 | 66.0 | 66.9 | 65° 3 | 65.6 65.6 | 65.2 65.2 | 69.5 | 65.6 62.5 | 61.5 58.3 | 63.1 60.1 | 54.6 |
| 3150 | 65.1 | 66.9 | 67. | | 65.7 | 63.5 | 64.3 | 63.2 | 62, 3 | 62.8 | 63.7 | 62.1 | 62.4 | 62.0 | 63.2 | 59.5 | 55.0 | 56.9 | 51.3) |
| 0004 | 61.3 | 63.0 | | rů, | 62.1 | 60.0 | 60.7 | 59.7 | 58.7 | 59.3 | 60.1 | 58.6 | 58.9 | 56.5 | 59.7 | 55.6 | 51.3 | 53.4 | 47.7 |
| | 57.1 | 56.6 | | 8 4 | 50 H | 56.0 | 56. 50. 10. | 55.7 | | 50.00 4.00 | 56.2 | 54.7 | | 24°0 | 55.7 | 51.7 | 67.83 6.03 | 49°5 | 43.7 |
| 0000 | 49.0 | 50.5 | 51.2 | ; ; | 6 4 8 8 9 | 47.3 | 19.0 | 47.0 | 46.1 | 46.7 | 47.4 | 9 | 46.3 | 45.9 | 6.9 | 42.8 | 38.3 | 6.04 | 35.2 |
| _ | | | | | | | | | | | | | | | | | | | ^ |
| 12800 | 45.0 | | 47. | 3 | 44.0 | 45.5 | 43.1 | 42.1 | 41.2 | 41.7 | 42.5 | 41.2 | 41.5 | | 42.0 | 37.9 | 33.4 | 36.2 | 30.6 |
| 12500 | 40.0 | | | ů, | 36.6 | 37.2 | 37.6 | 36.0 | 35.0 | 36.3 | 37.1 | 35.0 | 36.2 | | 36.6 | 32.5 | 28.0 | 31.1 | 25.9 |
| | 3.00 M | | 2 6 | å ÷ | 24.0 | 25.4 | 31.6 | 24.4 | 34.6 | 30.0 | 31.2 | 24.7 | 50.5 | | 3U.D | 20.0 | 25.5 | 9.62 | 2002 |
| 20000 | 24.9 | 27.1 | , ç | 1 2 3 2 | 21,9 | 18.9 | 16.9 | 16.3 | 17.6 | 17.5 | 18.1 | 17.0 | 17.1 | | 17.4 | 13.9 | 10.8 | 13.4 | 10.7 |
| | : : | | | : | ; ; | 1 | , , 1 | , , , | , : | ; | • | • | | | , , , | • | | , } | |

| NOISE SOURCE/SUBJECT: A-7 NOISE SUPPRES: AF32A-19 COSTANCE (FEET) 0 10 | E/SU | | | 4 | 읓 | DISTANCE | FROM | SOURCE | | | | | | | | 100 | | 22-001 | |
|---|-------|------------|------|-------|--|--|-------|--------|----------------|----------|---|--------|---------------------------------|----------|------|--|---------|-----------------------|---------------------|
| DISTANCE (FEET) | 6 | SUPPRESSOR | SOR | | 0 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | RATIONS MILITARY POWER, SINGLE ENGINE SUPPRESSEU GROW | NO DE | R, 96 | Z RPH RUNUP | 7 C | METEOROLOGY I TEMP BAR PRES REL HUMI | I VOO | = 59 = 29.92 = 70 0 08 | 2 T N HG | | AIRCRAF DOPERATI PROFILE 28 NOV PAGE G | | CODE CODE RSION | 833 61004 - A |
| | | 10 | 20 | 36 | 9 | 5. | 90 | 20 | ANGLE 83 | - 0, | 1DEGREES) | 110 | 120 | 130 | 740 | 150 | 160 | 170 | 180 |
| | F - 4 | 97.1 | 97.6 | | 4.96 | 93.9 | 2.46 | 93.7 | 92.7 | 95.6 | 93.8 | 92.2 | 92.6 | 92.2 | 0.46 | 90.1 | 86.7 | 87.1 | 81.4 |
| 250 | 92.6 | 95.0 | 95,5 | 95, 1 | 94.2 | 91.7 | 92.5 | 91.5 | 94.6 | 90.5 | 91.7 | 90.1 | 90.5 | 90.1 | 91.8 | 86.0 | 84.5 | 84.9 | 79.3 |
| | 9.0 | 95.9 | 93,3 | | | 89.5 | 90.3 | 89.4 | 48.4 | 88.3 | 89.5 | 87.9 | 68.3 | 87.9 | 9.69 | 85.8 | 82.3 | 85.8 | 77.2 |
| | 18.5 | 90.7 | 91,1 | | 8 % | 87.3 | 88.1 | 87.1 | 86.1 | 86.1 | 67.3 | 85.7 | 86.1 | 85.7 | 87.3 | 83.5 | 80.1 | 80.5 | 75.0 |
| | 6.3 | 68.6 | 88.8 | | | 85.1 | 85.9 | 84.5 | 83.9 | 83.9 | 85.1 | b 3. 4 | 63.8 | 83.4 | 85.0 | 81.2 | 77.8 | 78.3 | 72.8 |
| | 84.2 | 86.3 | 86.5 | | | 82.7 | 83.5 | 82.5 | 81.5 | 81.6 | 82.8 | 81.1 | 81.5 | 81.1 | 82.7 | 78.8 | 75.4 | 76.0 | 70.5 |
| | 2.0 | 84.1 | 84.1 | | | 80.3 | 81.1 | 80.1 | 79.1 | 79.3 | 90.4 | 78.7 | 79.1 | 78.7 | 90.5 | 76.4 | 72.9 | 73.6 | 68.1 |
| 1830 7 | 7.6 | 81.8 | 81.6 | 81.2 | 80.2 | 77.8 | 78.7 | 77.6 | 76.6 | 76.9 | 77.9 | 76. 3 | 76.7 | 76.2 | 77.7 | 73.9 | 70.6 | 71.1 | 65.7 |
| | 7.3 | 79.4 | 79.1 | 78.7 | 77.6 | 75.3 | 76.1 | 75.0 | 7 ** 0 | 74.4 | 75.4 | 73, 7 | 74.1 | 73.6 | 75.1 | 71.2 | 67.7 | 68.5 | 63.1 |
| 7600 7 | 74.9 | 76.9 | 76.5 | 76.0 | 74.9 | 72.6 | 73.4 | 72.3 | 71.3 | 711.7 | 72.7 | 71.0 | 71.4 | 70.9 | 72.4 | 68.5 | 6 * 4 9 | 62.6 | 60.5 |
| | 2.4 | 74.4 | 73.8 | 73,3 | 72.0 | 69.8 | 74.5 | 69.5 | 68.5 | 69.0 | 6 % 9 | 69.2 | 69.6 | 68.1 | 69.5 | 65.6 | 62.0 | 63.1 | 57.7 |
| 2540 6 | 9.3 | 71.3 | 70.8 | 70.3 | 69.0 | 66.8 | 67.5 | | 65.5 | 66.0 | 66.9 | 65, 3 | 65.6 | 65.2 | | 62.5 | 58.9 | 60.1 | 54.6 |
| | 5.9 | 67.8 | 67.4 | 67.1 | 65.7 | 63.5 | 64.3 | 63.2 | 62.3 | 62.8 | 63.7 | 62.1 | 62.4 | 62.0 | 63.2 | 59.5 | 55.5 | 56.9 | 51.3 |
| 9 8004 | 2.6 | 63.7 | 63,6 | 63,5 | | 60.09 | 60.7 | 59.7 | 58.7 | 59.3 | 60.1 | 58.6 | 58.9 | 58.5 | 59.7 | 55.6 | 51.7 | 53.4 | 47.7 |
| | 7.6 | 59.5 | 59.4 | 59.5 | 58.0 | 56.0 | 56.8 | 55.7 | 54.8 | 55.4 | 56.2 | 54.7 | 55.0 | 54.6 | 55.7 | 51.7 | 47.6 | 49.5 | 43.7 |
| | 3.0 | 54.5 | 55.0 | 55.1 | | 51.7 | 55.5 | 51.4 | 50.5 | 51.2 | 51.9 | 50.4 | | 56.3 | 51.4 | 47.3 | 43.1 | 45.2 | 39.4 |
| 9900 | 9.1 | 50.7 | 51.2 | 51.1 | 4 9 3 | 47.3 | 48.0 | 47.0 | 46.1 | 46.7 | 47.4 | | 46.3 | 45.9 | 46.9 | 42.8 | 38.4 | 6.0. | 35.2 |
| 1.384.0 | 1 | 46.7 | 47.2 | 4 | 4 | 42.5 | 43.1 | 42.1 | 41.2 | 44.7 | F . 5 | 44.2 | 41.5 | 61 | 42.9 | 37.0 | 4 . 5 . | 36.2 | 30.8 |
| | 40.6 | 42.4 | 42.8 | 42.0 | 39.6 | 37.2 | 37.6 | 36.8 | 25.0 | M 49 | 37.1 | 10.0 | 36.2 | 35.7 | 36.6 | 32.5 | 28.0 | 31.1 | 25.9 |
| | 5.8 | 37.8 | 36.0 | 9 | 34.1 | 31.5 | 31. 7 | 30.9 | 30.2 | E 4 27 E | 31.2 | 30.0 | 30.3 | 29.8 | 30.6 | 26.6 | 22.3 | 25.6 | 20.8 |
| 20000 | 9.0 | 32.7 | 32.7 | 31. | 28.2 | 25.3 | 25.4 | 24.7 | 24.0 | 24.0 | 24.8 | 23. 7 | 23.9 | 23.4 | 24.2 | 20.3 | 16.4 | 19.6 | 15.7 |
| | 6.4 | 27.1 | 26.8 | 24. | 21.9 | 18.9 | | 18.3 | 17.6 | 17.5 | 18.1 | 17. | 17.1 | 16.7 | 17.4 | 13.9 | 10.8 | 13.4 | 10.7 |
| | | | | | | | | | | | • | |) | | | | | | |

| | DIST | DISTANCE | = 250 | щ. | | | | EET | | | | | | | | ō₽ ^^ | - | 1 6.2 77-833-801 | 1 |
|---------------|---|----------|------------|-------------|---------|---------------------------------|---------|--|-------|-------|-------------------------------------|--------------|--------------------|-------|-----|----------|--|------------------------|--------------------------|
| NOISE S | SE SOURCE/SUBJECT : A-7 NOISE SUPPRES: AF32A-19 | SUB | SUPPRESSOR | | 40 - | OPERATIONS MILITA SINGLE SUPPRE | ARY POI | ATIDA: ALITARY POWER, 96% RPH SINGLE ENGINE SUPPRESSED GROUND RUNUP | RUNUP | 3 2 3 | METEOROLOGYS TEMP BAR PRES REL HUMI | PRES HUMI | S #29.92 D # 70 | L H X | 9 | 24222 | RUN D4 AIRCRATT CODE PROFILE VERSION 28 NOV 79 PAGE J4 | COO ON COO VERSI | E 833 E 81004 On A |
| | | | | | d. | Pap NL T | | | | A=AL | | | | T=ALT | 1 | | | | |
| | . ۔ ا | | | | | | | • | | | • | | • | | | | | | |
| | | • | • | • | • | • | • | •• | • | • | • | • | | | • | • | • | • | • |
| |) 1 | • | , | • | • | | • | • | | • | • | | • | ¥ | • | - | • | • | _ |
| | 22 | • • | - • | | • • | | • • | • • | | • • | • • | | • • | × | • • | | ۰. | •• | . ~ ^ |
| | د ر 9 | • | • | • | • | • | • | • • | • | • | • • | • | • | × | • • | • | ••• | • | • |
| | 3 | • • | . • | | • • | | • • | • • | | • • | • • | | • • | × | | ۵. | | •• | ^^ |
| • | 20 | | - • | • • | • • | | | • • | | • • | • • | | • • | | • • | ۵ | • • | • • | |
| Z | | • | • | | • | | • | • | | • | • | | • | > | • | ٥ | • | | _ |
| ا د. و | 3 . | • | • | - - • | ••• | • | • | • • | • | • | • • | • | • | | • | • | • | • | • |
| نیا | - - | | - • | | • • | | | • | | • • | • • | | × | | | <u>a</u> | | • • | |
| H 2 | . | • | | • | • | | • | • | | . • | • | | × | | • | • | • | • | |
| Ł | 96 | • • | • | • | • | • | • | • • | • | • | • • | • | . × | • | • | • | • | • | • |
| 0 W | 70 8 70 8 | • • | _ • | | • • | | | • • | | • • | • • | | × | | • • | • | | •• | |
| 9 62 1 | 911 | . • | - • | | • • | | •• | • • | | •• | • • | | •× | | • • | | • • | •• | |
| m m | 120 (• | • | • | • | • | • | • | • • | • | • | • • | • | •× | • | • | • | • | • | • |
| S | 730 (| • • | . • | | • • | | • • | • • | | • • | • • | | • × | | • | | | •• | |
| | 7¢0 ° | | . • | | • • | | ٠. | • • | | •• | • • | | × | | • • | ٥ | • • | •• | |
| | 150 C | • | • | • | • | • | • | • • | • | • | • • | • | · · | • | | • | • | • | ~; |
| |) 09T | | . • | •• | • • | | • • | • • | | • • | • • | Ā | •• | | ••• | | • • | •• | |
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| | 160 (5 | • | | • | | • | • | • | | • | × | • | • | • | • | • | • | | 7 |
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| A-7 NOISE SUPPRESSOR | | ٠ | | | | | | | & H • • • | USAF A-7 NOISE SUPPRESSOR USAF |
|---|------------------------|------------------|---------------------------------|--|---------------|--|-------------------------|---|--|--|
| SUPPRESSOR SUPPRESSOR | ND 8Y | | TIONS | 6.2 | Page | 30-35 36-41 | ATA ARE PROVIDED: | AND FREQUENCY DISTANCE FROM SOURCE FLL SOUND LEVEL 250 FEET FROM SOURCE | OF 6 8 8 8 9 8 9 9 6 9 8 9 9 9 9 9 9 9 9 9 | SE SUPPRESSOR SE SUPPRESSOR SE SUPPRESSOR |
| A A A NOTE OF A A A A A A A A A A A A A A A A A A | PROBUCEO ON THE GROUND | NOISE SUPPRESSOR | DURING GROUND RUN-UP OPERATIONS | 76-833-001 Raft Code: 833 Ile Version: A Er program omega | | | IG, THE FOLLOWING DATA | ALIZED DATA AS A FUNCTION OF ANGLE AN NORMALIZED SPL AT 250 FEET E LEVELS AS A FUNCTION OF ANGLE AND D PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SO E LEVELS AS A FUNCTION OF ANGLE AT 25 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | R A-7 NOISE R A-7 NOISE B A-7 NOISE |
| A-7 NOISE SUPPRESSOR A-7 NOISE SUPPRESSOR | MOISE PR | A-7 N | DURING G | TEST AIRG Prof Comput | Power Setting | Idle Power, 54.4% RPM . Engine Runup, 70% RPM . Engine Runup, 85.6% RPM Military Power, 97.7% R | FOR EACH POWER SETTING, | NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY NORMALIZED SPL AT 250 FEET NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE AND A FROM SOURCE AND | RONPACE AEOHCIGEL - PATERNO | A-7 NOISE SUPPRESSOR A-7 NOISE SUPPRESSOR |
| A-7 NOISE SUPPRESSOR A-7 NOISE SUPPRESSOR | | | | | | | | | 4 3 | USAF USAF A-7 NOISE SUPPRESSOR USAF A-7 NOISE SUPPRESSOR |

| | | | | _ | _ | _ | _ | | | . ~ | _ | _ | _ | _ | _ | _ | _ | | | | | | _ | _ | |
|---|--|--------------------------|----|------------|---------------------|-----|---|--|-------------|---------------------|-----|-----|----------------|---------------|----------|--|------------|------------|------------|------------|-------------|-------|------|------|---------|
| | 633 00113 A | 180 | 69 | 29 | 28 | 53 | 9 | ب م | , v | 1 | 14 | 53 | 64 | 40 | 6 | 9 | 6 | - 1 | ; ; | † u | Y Y | | 384 | 324 | 70 |
| ATION: .2 633-001 | CODE 0 CODE 0 FERSION | 170 | 65 | 9 | 58< | 53 | 9 | 10 to | 7 Z | 1 | 47 | 53 | 49 | 8 | 64 | 9 | 5 (| - | • 4 | † 4 |) W | 4 | 38< | 324 | 70 |
| ICATI 6.2 6-833 | AFT C TION C LE VER V 79 | 160 | 69 | 29 | 58 | 23 | 9 | 23 | 7 4 2 4 | 1 | 47 | 53 | 64 | 4 | 4 | 63 | 6 | } | | • u | 2 4 | 3 | 38 < | 32< | 70 |
| DENTIFICATIONS OHEGA 8.2 TEST 78-833-00 | ~ | 150 | 61 | 6 2 | 58< | 54 | 20 | 544 | 7 G | 4 | | | | | 64 | | _ | * | | 2 4 | | 36 | 28< | 22< | 29 |
| or or | | 937 | 63 | 61< | 8 | 26 | 20 | | n 4 | 46 | 4 | 64 | *6 * | *6 | 64 | 26 | 9 | . | 0 | 7 7 7 | ; | 354 | Ó | 234 | 99 |
| | IN K | 130 | 65 | 9 | 58< | 26 | 1 9 | o | 7 G | 474 | 45 | 50 | >6 † | 484 | 4 | S S | 4 | . | † ¢ | , e | 27.0 | 7 | 154 | * | 69 |
| | 59 29.92 70 | 120 | 99 | 63 | 2 8< | 52 | 20 | | * 4 | * 9 * | 45 | 64 | 51< | 25< | 54 | 26 | 4 | ţ. | ? ? | 0 6 | 26. | 7 2 7 | 164 | ě | 20 |
| | | 977 | 63 | 63 | 2 3 × | 22 | , 50 50 50 50 50 50 50 50 50 50 50 50 50 5 | 75 C | 7 T | . r | 5 | 25 | 20 | 25 | 21 | 26 | | 9 ! | • | ? . | | 7 9 7 | 30 < | 244 | 69 |
| | HETEOROLOGY TEMP BAR PRESS REL HUMID DELTA N = | EES) | 62 | 61 | 61 | 26 | 62 | 2, | 7 2 | 52 | 25 | 28 | 52 | 22 | 57 | 63 | 50 C | 20 | 76 | • |) a | 9 4 | £24 | 36 | 11 |
| | E SE | 90 1 | 63 | > 49 | 65 | 58 | 65 | 50 | ע ע ע ני | 51 | 20 | 53 | 25 | 34 | 2 | 99 | 34 | 25 | 2 5 | H 6 |))) | 7 | £2× | 36 | 73 |
| | SEO) | NGLE | 99 | 29 | 58 < | 26 | 62 | 52 | 2 4 2 4 | | 9 | 64 | 48 | 6 | 9 | 50 80 80 80 80 80 80 80 80 80 80 80 80 80 | 25 | | 9 ! | ? . | 2 0 | 7 Y | 30 < | 244 | 79 |
| | RPH | 2 | 99 | 62 | 20 | 50 | 9 | 1 | , r | , 4 (e) | 64 | 54 | 48 | 50 | 48 | 22 | 20 | 9 ! | . | † : | 1 4 | 700 | 264 | 204 | 70 |
| 08) | (54°4× | 99 | 70 | 61 | 61 | 9 | 62 | 0 | n n | 67 | 47 | 21 | 50 < | *6 * | 40 | 20 | 20 | . | * | 9 F | 37,6 | × 1 × | 25. | 194 | 73 |
| | ON: POWER (54.4) E ENGINE TO RUNUP (SL | 20 | 68 | \$ 9 | 68 | 20 | 9 | 10 10 1 | ν . υ . | 1.4 | 64 | 64 | 50 < | 51< | 52< | 2 | 20 | 60 f | * : | ? ! | 47. | × 1. | 25. | 194 | 73 |
| | RATI PLE ROUN | 3 | 68 | 65 | 69 | 9 | † | , 50 00 10 10 10 10 10 10 10 10 10 10 10 10 | y r o v | 1,7 | 84 | 25 | 20 < | >64 | 84 | 20 | 25 | 6 . | 9 5 | 7 2 | 0 6 | 244 | 18< | 12 < | 7, |
| ES SURE T | | 90 | 29 | 29 | 73 | 63 | 61 | 20 1 | 7 K | 9 6 | 4 | 64 | *6 * | 20 | 514 | 25 | 44 | Ž. | ? | 7 | 284 | 224 | 164 | 10 | 75 |
| O PR | | 20 | 72 | 99 | 72 | 63 | 63 | 25 | 7 Y | 20 | 25 | 28 | 51 | 20 | 49 | 9 | 2 | 4. | o . | # u | 7 4 | 35 | 294 | 234 | 77 |
| E BAND | , - 0 | 9 | 73 | 99 | 11 | 9 | 61 | ğ. | ת ס ת | 26 | 20 | 22 | 64 | 2 | 20 | 20 | S S | 9 ! | ; : | ? ? | ? 4 | 36 < | 28< | 554 | 77 |
| W > | RCE/SUBJECT : SE SUPPRESSOR 4 | 9 | 74 | 2 | 72 | 23 | 09 | 56 | , r | , ru | 30 | 25 | 55 | 24 | 53 | 99 | 53 | 21 |) (| * 4 | 4 | 4 | 3.8 | ~ | 7.8 |
| TABLES | NOISE SOURCE A-7 NOISE AF32A-24 | BAND CENTER FREQ (HZ) | 56 | | 30 | 100 | 125 | 160 | 0.00 | 315 | 90+ | 200 | 630 | 908 | 1000 | 1250 | 1600 | 2000 | 2007 | 010 010 | | 5.30 | 8000 | 8 | OVERALL |
| ; | | としし、 | | · | _ | J | J | ٠, | | | • | _ | J | J | J | J | _ | . | ٠, | ٠, | | | | | |

XXX = EXTRAPOLATED OR INTERPOLATED SPL

| (TABLE: PERCEIVE | PERCE AS A | PERCEIVED NOISE LEVEL AS A FUNCTION OF ANGL | ISE L |] w | (PNDB) AND DISTANCE | | FROM SOURCE | OURCE | | | | | | | |) IDENTI) OMEGA) TEST | IDENTIFICATIONS OMEGA 6.2 CLEST 78-633-891 | 10N: | |
|---|---------------------------------------|--|------------------------------|-----------|---------------------------------------|--|------------------------------|---|--|--|--|--|------------------------------|---|---|---------------------------------------|---|--|--|
| AF324 | E SOURCE/S A-7 Noise Af32A-24 | 1 5 3 | SSOR | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | OPERATION: IDLE POMER (54.4% SINGLE ENGINE GROUND RUNUP (SUPF | MER (5 ENGINE RUNUP | | RPH) RESSED) | Ī 5 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | S S S | 59 55 = 29,92 0 = 70 | 7 H X | | AIRCI OPER 2 26 N | AINN 81 AINCRETT CODE APECTIE VERSION 28 NOV 79 PAGE D1 | X | 633 66113 |
| (OISTANCE ((FEET) | | 10 | 50 | 8 | 3 | 50 | 99 | 9, | ANGLE 80 | 95 | GREES) 100 | 110 | 120 | 130 | 346 | 150 | 166 | 178 | 160 |
| 200 (250 (315 | 82.4 80.7 77. | 4 78.8 2 75.7 9 73.4 6 71.1 | 78.8 76.6 74.3 72.8 | 73.4 71.0 | | 75.1 72.8 78.5 68.2 | 77.0 74.8 72.5 70.2 | 75.2 72.9 70.7 68.3 | 75.5 73.3 71.0 68.6 | 82.5 88.3 78.0 75.7 | 81.0 78.8 76.5 74.1 | 75.0 72.7 70.4 68.1 | 73.2 71.8 68.8 66.4 | 71.7 69.9 67.2 64.8 | 73.9 71.7 69.4 67.8 | 73.7 71.5 69.2 66.8 | | 78.5 76.3 74.0 | 76.5 |
| 0000 | 7 % | | | | 6 6 6 6 | 65.6 63.0 68.2 | 67.8 65.3 62.5 | 65.9 63.3 68.6 | 66.2 63.5 60.8 | 73.3 70.8 66.1 | 71.7 69.2 66.6 | 65.6 63.0 60.3 | 64.0 61.4 58.7 | 62.4 59.8 57.1 | 64.5 61.9 59.1 | 64.3 61.7 59.8 | 69.2 66.7 64.8 | 69.2 66.7 64.8 | 5.69.2 |
| | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | ๛๛๛๛๛๛ ๛๛๛๛๛๛ ๛๛๛๚๛๛๛๛๛ | WWW # # WW # # W # W # W # W # W # W # | | 740044 740044 740044 74004 74004 74004 74004 74004 74004 74004 | 00000000000000000000000000000000000000 | 00000000000000000000000000000000000000 | # # # # # # # # # # # # # # # # # # # | 00000000000000000000000000000000000000 | | 4 6 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 000444000 0000000000000000000000000000 | # # # # # # # # # # # # # # # # # # # | 4 4 4 8 5 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 | 44696446446444644446944446944444444444 | ###################################### |
| (18840 8.9 1.8 (12590 8.9 1.8 (25989 (25989 | . | • | 1.0 | _ | | | | | | 6. | | | | | | | 6.1 | 6.1 | 4 9 |

| (TABLE: TONE-COR | TONE | TONE-CORRECTED, PERCE | RECTED, PERC | _ | VED NOISE LEVEL (PNDB) | E LEVE | L (PND | 6 | | | | | | ! ! | |) IDENTI | DENTIFICATIONS | LIONS | |
|---|---------------------------------------|---|--|--|---|--|--|--|--|--|--|--|--|--|--|---------------------------------------|--|--|---------------------------------------|
| | AS | A FUNCTION | PO | w | AND DISTANCE FROM SOURCE | TANCE | FROM S | OURCE | | 1 | | | | | | TEST | ٠ ﴿ | 33-001 | |
| NOISE SOL | URCE/S NOI SE A-24 | | • | | 9 | OPERATION: IOLE POWER (54.4% SINGLE ENGINE GROUND RUNUP (SUPP | MER (5 ENGINE RUNUP | 4.4% RPH) (Suppressed) | RPM) RESSED) | 2000 | METEOROLOGY TEMP BAR PRE REL HUH DELTA N = | SGO | . 2.5 | 600 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | AIRCE DOPERU DPROF | AIRCRATI CODE OPERATION CODE PROFILE VERSION 28 NOV 79 PAGE E1 | CO DE CO DE RS I ON | 633 00113 |
| (DISTANCE (FEET) | | 10 20 | 20 | 8 | 3 | 50 | 9 | 92 | ANGLE 84 | | (DEGREES) 90 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 160 |
| (250 (250 (315 | 86.8 84.5 | 81.0 78.7 76.5 | 82.5 | 76. | 77.2 | 76.2 73.9 71.6 | 78.5 | 77.3 | 78.0 75.8 73.5 | 86.6 84.4 82.1 | 82.7 80.5 78.2 | 76.7 | 75.2 | 73.7 71.4 69.2 | 76.5 | 76.5 | 83.4 81.2 78.9 | 83.4 | 83.4 81.2 78.9 |
| 0020 | 80.0 77.6 75.1 72.5 | | 75.6 73.2 70.8 68.1 | | 600000000000000000000000000000000000000 | 69.2 66.7 64.1 61.3 | 71.7 69.2 66.7 64.0 | 60° 0 60° 0 65° 4 | 71.1 68.7 66.1 63.4 | 79.8 77.4 74.8 72.2 | 75.9 73.4 70.9 68.3 | 69.8 67.4 64.7 62.0 | 6666 6666 6666 6666 6666 6666 6666 6666 6666 | 66.8 64.3 61.7 | 69.6 67.1 64.4 61.7 | 69.6 67.2 64.5 61.8 | 76.5 74.1 71.5 68.8 | 76.5 74.1 71.5 68.8 | 76.5 |
| | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | W G V W G W W G V | 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | \$ | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 77 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 46400000000000000000000000000000000000 | 00000000000000000000000000000000000000 | ************************************** | \$ | 00000000000000000000000000000000000000 | 10 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 00000000000000000000000000000000000000 | 123444 4866 4866 4866 4866 4866 4866 4866 | 70000000000000000000000000000000000000 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 00000000000000000000000000000000000000 | 00000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 1 1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9 65 1 60 1 | • | . | | | | | | • | 9 9 8 | | | : | | | | 9 | 9 | 9 |

| E SUBJECTI (OPERATION OF ANNUAL CALLE FORT (STALLE ENGINE CALLE ENG | (TABLES | | A-WEIGHTED OVERALL | VERALL | NOS. | ND LEVEL | (08A) | 700 | 9 | | | | | | | |) IDENTI | IDENTIFICATION ONEGA 8.2 | : NO: | |
|--|---------------------|----------------------------|--------------------|----------|--------|----------------------|------------------|--------------|---------|---------------|-------------|---|-------------|--------------|------|------|--------------|--------------------------|-------------------------------|--------------|
| ## 10 20 30 40 50 62.4 64.3 62.9 63.5 78.9 63.6 63.2 62.6 68.3 61.0 15 15 15 15 15 15 15 15 15 15 15 15 15 | NOISE | URCE/SU NOISE S A-24 | BJECT | . ! | . • | | TION: DLE POI | WER (SERVINE | 4.4x RI | PH) ESSED) | Ī 0 | ETEOROI TEMI BAR REL ELTA N | · voe | #29° | F HX | | PROFES | RAFT CATION CILE VER | CODE 8 N CODE 8 VERSION | 633 60113 |
| 70.3 65.1 65.9 61.7 63.2 62.4 64.3 62.9 63.5 70.9 69.6 63.2 62.6 61.3 61.8 61.8 61.8 61.8 61.1 61.2 62.2 63.2 63.2 65.1 61.8 61.1 61.5 50.2 50.7 59.7 63.1 61.2 62.2 61.8 61.4 61.7 67.5 61.1 61.5 50.2 59.7 59.7 59.7 63.8 50.8 57.8 57.6 63.8 50.8 57.8 57.6 63.8 50.8 57.8 57.6 63.8 50.8 57.8 57.6 63.8 50.8 57.8 57.6 63.8 50.8 57.8 57.6 63.8 50.8 57.8 57.6 63.8 50.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 57 | (DISTANCE ((FEET) | . • | 10 | 20 | 98 | | 50 | 3 | 7.0 | ANGLE | • | ZEES) | 110 | 120 | 130 | 140 | 150 | | 170 | 188 |
| 66.1 60.9 61.7 57.6 59.8 56.1 60.1 50.7 59.2 66.6 65.4 56.9 56.4 56.1 57.5 57.6 63.9 56.8 57.5 61.0 57.5 57.6 63.9 56.8 57.5 57.5 61.0 57.5 57.5 57.6 63.9 56.8 57.5 57.5 57.5 61.0 57.5 57.5 57.5 57.5 57.5 57.5 57.5 57 | 200 | | 65.1 | 65.9 | | 63.2 | 62.4 | 64.3 | 62.9 | RV 4 | 78.9 | 69.6 | 63.2 | 62.6 | 68.3 | 61.8 | 61.8 | | 67.3 | 67.3 |
| 63.9 58.6 57.3 53.5 56.6 55.7 56.7 56.4 63.2 56.6 56.3 53.9 55.4 55.4 56.5 56.6 57.3 53.9 55.4 55.4 56.7 56.5 57.3 53.8 55.4 55.7 56.3 56.8 56.8 56.8 56.8 56.8 56.8 56.8 56.8 | 315 | | 6.0 | 61.7 | | 26. | 58.1 | 60.1 | 58.7 | N | 66.6 | 65.4 | 56.9 | 58.4 | 56.1 | 57.5 | 57.6 | | | 63.0 |
| 59.5 54.3 55.1 51.1 52.3 51.5 53.4 52.0 52.6 59.9 50.7 52.3 51.9 49.5 50.9 51.0 57.2 52.0 52.0 49.6 50.4 49.6 50.4 49.6 57.2 47.2 47.2 47.2 52.0 56.4 49.9 49.6 47.2 47.2 47.2 52.3 47.1 47.9 43.9 49.6 50.4 46.4 47.6 46.7 46.7 46.2 52.7 51.5 45.0 47.5 47.2 47.2 47.2 47.1 47.9 43.9 43.0 45.2 52.7 51.5 45.0 44.6 42.2 39.7 41.8 46.1 46.3 49.6 51.0 47.5 47.2 47.1 47.2 47.2 47.2 47.2 47.2 47.2 47.2 47.2 | | 63.9 | 58.0 56.0 | 59.5 | | 9. r 9. 4 6. 6 | 56.8 | 57.9 | 56.5 | 57.1 54.8 | 64.4 | 63.2 | 56. B | 56.3 | 53.9 | 55.4 | 55.4 | | . | 58.8 |
| 57.2 52.8 60.8 50.8 69.1 51.0 69.7 50.2 57.6 56.4 69.9 69.6 67.2 66.8 69.6 67.2 67.6 56.4 69.7 50.2 56.0 67.2 67.1 67.5 51.5 67.6 67.2 67.2 67.1 67.5 67.2 67.1 67.5 67.1 67.5 67.2 67.1 67.5 67.1 67.5 67.2 67.1 67.2 67.7 57.5 57.5 57.5 57.5 57.5 57.5 57.5 57.5 67.1 67.2 67.7 67.5 67.1 67.5 67.7 67.5 67.1 67.5 67.5 57.5 <td< th=""><th>630</th><th>59.5</th><th>54.3</th><th>55.1</th><th></th><th>52.3</th><th>51.5</th><th>53.4</th><th>52. G</th><th>52.6</th><th>59.9</th><th>58.7</th><th>52.3</th><th>51.9</th><th>49.5</th><th>50.9</th><th>51.0</th><th></th><th></th><th>56.4</th></td<> | 630 | 59.5 | 54.3 | 55.1 | | 52.3 | 51.5 | 53.4 | 52. G | 52.6 | 59.9 | 58.7 | 52.3 | 51.9 | 49.5 | 50.9 | 51.0 | | | 56.4 |
| 56.6 49.6 50.4 46.4 47.6 46.7 46.6 47.2 47.7 55.2 54.0 47.5 47.2 44.8 46.1 46.3 52.3 47.1 47.9 43.9 45.0 44.2 45.0 44.7 45.2 52.7 51.5 45.0 44.8 42.3 43.6 43.6 43.6 43.9 65.0 44.4 45.2 41.1 42.3 41.5 43.3 42.0 42.5 50.0 40.9 42.4 42.2 39.7 41.0 41.2 45.2 36.3 36.3 36.3 36.4 36.5 36.5 36.7 36.7 36.9 36.2 39.5 36.9 36.2 36.9 42.4 42.2 39.7 41.0 41.2 43.9 42.4 42.2 39.7 41.0 41.2 43.9 42.4 42.2 39.7 41.0 41.2 43.9 42.4 42.2 39.7 41.0 41.2 43.9 38.6 36.4 36.9 36.7 36.7 36.9 36.2 36.9 36.2 36.9 36.2 36.9 36.9 36.9 36.9 36.9 36.9 36.9 36.9 | 988 | 57.2 | 52.0 | 52.8 | | 50.0 | 49.1 | 51.0 | 49.7 | 2005 | 57.6 | 96.4 | 6 •6 • | 9.64 | 47.2 | 49.5 | 48.6 | | | 54.1 |
| 52.3 47.1 47.9 43.9 45.0 44.2 46.0 44.7 45.2 52.7 51.5 45.0 44.8 42.3 43.6 43.8 45.6 43.8 45.6 44.2 45.2 41.1 42.3 41.5 43.3 42.0 42.5 50.0 46.9 42.4 42.2 39.7 41.8 41.2 45.9 41.2 39.5 38.3 38.3 38.7 37.8 45.1 39.6 39.5 36.9 38.2 38.4 41.1 41.0 33.5 35.3 36.4 36.9 38.2 38.3 38.4 33.8 38.4 41.1 41.0 33.5 36.9 38.2 38.8 38.8 38.8 38.8 38.8 38.8 38.8 | 1909 | | 49.6 | 50.4 | | 47.6 | 46.7 | 48.6 | 47.2 | 47.7 | 55.2 | 54.0 | 47.5 | 47.2 | 44.0 | 46.1 | | _ | 51.6 | 51.6 |
| #9.6 #4.6 #5.2 #1.1 #2.3 #1.5 #3.3 #2.0 #2.5 50.0 #6.9 #2.4 #2.2 39.7 #1.0 #1.2 #6.5 50.0 #4.6 #5.2 #1.6 #1.2 39.7 #1.0 #1.2 #1.2 #6.5 50.0 #1.2 #1.2 #1.2 #1.2 #1.2 #1.2 #1.2 #1.2 | 1250 | | 47.1 | 47.9 | | 45.0 | ** | 16.0 | 44.7 | 45.2 | 52.7 | 51.5 | 45.0 | 44.8 | 42.3 | 43.6 | 43.8 | | 49.1 | 19.1 |
| 40.5 34.6 35.5 35.2 35.4 35.6 37.4 35.3 35.7 44.3 45.2 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 | 1600 | 49.6 | 4.4.4 | 45.2 | | 45°3 | 41.5 | £3. | 42.0 | 42.5 | 20.0 | 6.04 | 45.4 | 42.2 | 39.7 | 4.4 | 41.2 | | 46.5 | 6.5 |
| 40.6 35.3 36.1 31.9 33.1 32.4 34.1 33.0 33.4 41.1 40.0 33.5 33.6 30.8 32.0 32.4 37.3 31.7 32.5 20.3 29.4 20.3 29.8 37.5 36.4 30.0 30.2 27.2 20.5 20.9 23.1 27.7 20.4 20.3 29.8 37.5 36.4 30.0 30.2 27.2 20.5 20.9 23.1 27.7 20.4 20.4 20.9 20.3 29.8 20.3 29.2 20.1 20.0 20.4 23.2 24.9 20.3 20.8 20.3 20.2 20.1 20.4 20.2 20.9 20.3 20.3 20.2 20.3 20.2 20.1 20.4 20.2 20.8 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 | 2500 | 6.00 | 38.6 | 39.5 | | 36.4 | 35.6 | 37.4 | 36.3 | 36.7 | 7 | 43.2 | 36.7 | 36.7 | 34.0 | 35.2 | 35.5 | | 0 00 | |
| 37.1 31.7 32.5 28.3 29.4 28.6 30.4 29.3 29.8 37.5 36.4 30.0 38.2 27.2 28.5 28.9 33.1 27.7 28.4 28.4 28.5 26.3 28.8 33.6 32.5 26.0 26.4 23.2 24.5 24.9 28.7 28.4 28.5 28.8 28.5 32.5 28.1 18.9 28.2 24.9 28.2 28.8 28.8 28.5 28.6 32.8 28.1 18.9 28.2 24.9 28.2 28.8 28.8 28.8 28.8 28.8 28.8 28 | 3150 | 40.6 | 35.3 | 36.1 | | 33.1 | 32.4 | 34.1 | 33.0 | 33.4 | 41.1 | 40.0 | 33.5 | 33.6 | 30.6 | 32.0 | 32.4 | | 37.6 | 37.6 |
| 33.1 27.7 28.4 24.4 25.4 24.9 26.3 25.8 33.6 32.5 26.0 26.4 23.2 24.5 24.9 28.1 28.7 22.1 18.9 28.2 24.5 24.9 28.7 23.3 24.9 28.7 22.1 18.9 28.2 28.6 24.0 18.9 18.9 28.3 29.2 28.1 21.7 22.1 18.9 28.2 28.6 24.0 18.9 18.0 18.9 18.0 18.0 18.0 18.0 18.0 18.0 18.0 18.0 | 900 | 37.1 | 31.7 | 32,5 | | 29.4 | 28.8 | 30.4 | 29,3 | 29.8 | 37.5 | 36.4 | 30.0 | 30.2 | 27.2 | 20.5 | 28.9 | | | 34.8 |
| 2007 2303 240 2001 2009 2005 2109 2103 2902 2801 2107 2201 1809 2802 2806 240 1809 1809 2802 2806 240 1809 1907 150 160 1809 1802 2806 240 1809 1907 1807 1802 1808 1808 1808 1808 1808 1808 1806 1808 1808 | 2000 | 33,4 | 27.7 | 28.4 | | 25.4 | 24.9 | 26.3 | 25,3 | 25.8 | 33.6 | 32.5 | 26.0 | 26.4 | 23.2 | 24.5 | 24.9 | | 7 (| 7.08 |
| 18.8 14.2 15.2 11.6 11.9 11.6 12.2 12.1 11.5 19.2 18.6 12.5 13.8 18.8 18.8 11.4 15. 13.0 9.2 18.4 6.9 7.1 6.7 6.9 7.2 5.9 13.5 13.3 7.3 7.7 5.1 5.4 6.1 9. 7.1 4.2 5.5 2.1 2.1 1.5 1.6 2.1 .1 7.4 7.5 1.7 2.8 .4 .4 3. | | 24.0 | 18.9 | 19.7 | | 7 6. 6 16. 6 | 16.3 | 17.1 | 16.6 | 21.5 16.7 | 29.62 | 23.6 | 17.3 | 17.8 | 16.9 | 2.02 | 20.6 16.2 | | 25.7 | 26.62 |
| 18.8 14.2 15.2 11.6 11.9 11.6 12.2 12.1 11.5 19.2 18.6 12.5 13.8 18.8 18.6 11.4 15. 13.0 9.2 18.4 6.9 7.1 6.7 6.9 7.2 5.9 13.5 13.3 7.3 7.7 5.1 5.4 6.1 9. 7.1 4.2 5.5 2.1 2.1 1.5 1.6 2.1 .1 7.4 7.5 1.7 2.84 3. | | | | | | | • | 1 | • | : |))) | | , | , | ; | | 1 | | | |
| 13.4 | 10000 | 18.8 | 14.2 | 15.2 | 11.6 | 11.9 | 11.6 | 12.2 | 12, 1 | . | 19.2 | 10.6 | 12.5 | 13.0 | 11:1 | 10.0 | 11.4 | 15.5 1 | 5.5 | 15.5 |
| (*1 %*6 %*) 6:1 %*1 %*0 %*0 %*1 %*0 %*0 %*0 %*0 %*0 %*0 %*0 %*0 %*0 %*0 | 08621) | 13.0 | 2.6 | | ٠ • | 7: | | ø . | 7.2 | σ, | 13.5 | 13,3 | ۲. د | | 2.1 | 2.4 | • | 9.6 | 9.6 | 9.6 |
| | 20000 | * * | Y | , , • | 1 % | | 1.5 | 1.0 | 2.1 | | *** | | 7: | 8 • 2 | | | • | 3.2 | 3.5 | 3.8 |
| | (25080 | ; ; | | • | | | | | | | | ; | | | | | | | | |

| | | FUNCTION OF | | AS A FUNCTION OF ANGLE A | AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | |) OMEGA | OMEGA 8.2 TEST 78-833-031 | ¥. |
|--------------------|----------------------|-------------|-------|--------------------------|---|--|---------------------------|--------|-------------|------------|---|----------------|-------------------------|---|-------|---|---|---|
| NOISE SOU | RCE/S 01SE -24 | SUPPRESSOR | SOR | | 1 4 4 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | OPERATION: IDLE POWER (54 SINGLE ENGINE GROUND RUNUP (| HER (5 ENGINE RUNUP | SUP P | RPM) | <u> </u> | METEOROLOGY TEMP BAR PRE: REL HUM DELTA N = | PRESS HUMID | = 59 = 29,92 = 70 | 7 N N N N N N N N N N N N N N N N N N N | | AINCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE 61 | AFT CODE TION CODE LE VERSION V 79 | 0 0 0 1 1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| DISTANCE (FEET) | - | 10 | 20 | 36 | 9 | 50 | 09 | 92 | ANGLE 80 | (OEGREES) | ZEES) | 110 | 120 | 136 | 140 | 150 1 | 160 170 | 180 |
| 200 | 7.4.7 | 64.1 | 69.5 | | 55.1 | 63.4 | 55.8 | 65.1 | 66.0 | 74.9 | 71.4 | 6,49 | 9.49 | 62.2 | 64.3 | ڡ | _ | |
| 250 | 72.6 | 66.0 | 67.4 | | 0 % 0 % | 61.3 | 63.7 | 63.0 | 63.9 | 72.8 | 69.2 | 62.8 | 62.5 | 60.1 | 62.2 | 6 2 | . | |
| 6 T O | 68.0 | 61.8 | 63.2 | | 7 5 6 6 | 57.0 | 4.65 20.4 | 58.7 | 9.66 | 68.5 | | 56.5 | 58.3 | 55.9 | 57.9 | t M | ۰. | |
| 200 | 66.1 | 59.6 | 61.0 | | 56.6 | 54.8 | 57.1 | 56.5 | 57.4 | 66.3 | 62.7 | 56.3 | 56.1 | 53.7 | 55.7 | -4 | . 10 | |
| 636 | 63.9 | 57.3 | 58.7 | 52.0 | | 52.5 | 54.9 | 54.2 | 55.1 | 64.0 | 60.4 | 54.0 | 53.9 | 51.4 | 53.4 | 53.8 6 | 61.2 61.2 | 2 61. |
| 9 | | 220 | • | | | 2 00 0 | 6.76 | 0 | , ,, | 1.10 | | 21.0 | 21.0 | 1.64 | 1 -16 | • | | |
| 1000 | 59.5 | 52.6 | 54.0 | | 6 6 9 | 47.8 | 50.0 | 49.4 | | 59.3 | 55.7 | 49.3 | 49.2 | 46.7 | 49.7 | -4 | • | 5 56. |
| 1250 | 56.6 | 50.1 | 51.5 | | 4 6.9 | 45.2 | 47.5 | 46.9 | 47.7 | 2009 | 53.2 | 46.8 | 46.8 | 44.2 | 46.1 | ۰ | | |
| 1600 | 54.0 | 47.5 | 6.84 | | 4.5 | 45.6 | 44.8 | 44.2 | 45.0 | 54.1 | 50.6 | 44.1 | 44.2 | 41.5 | 43.5 | _ | ٠. | |
| 2000 | 51.2 | \. | 7 ° ° | 39. | 4 : | 39.7 | 61, | 41. | 45°5 | 51.3 | 4.4° | 7 | 41.5 | 38.9 | ¥0.7 | m. | ا ه | |
| 72 0 E | 9 U | 41.07 | 4 5 4 | 2 0 × | 7 E | 30.4 | 200 | 200 | 2.65 | * * | 7 · | 35° | 38.7 | 55.9 | 3/.6 | 36.4 | 40.4 40.4 | 45. |
| 0004 | 40.6 | 34.1 | 35.4 | 29.3 | 31.0 | 29.7 | 31.5 | 31.1 | 31.8 | 1 8 1 | 37.8 | 31.4 | 31.8 | 28.8 | 30.5 | | - 07 | |
| 50.0 | 35.7 | 29.5 | 30.6 | | 26.5 | 25.5 | 27.1 | 26.6 | 27.3 | 36.0 | 33.5 | 27.1 | 27.6 | 24.4 | 26.0 | م ا | _ | |
| 6300 | 30.5 | 24.5 | 25.5 | | 21.7 | 21.0 | 22.3 | 21.8 | 22,3 | 30.8 | 28.8 | 22.4 | 22,9 | 19.7 | 21.2 | | ۰ | |
| 8000 | 24.9 | 19.5 | 20.5 | | 17.0 | 16.5 | 17.4 | 17.1 | 17.2 | 25.3 | 23.9 | 17.7 | 18.2 | 15.0 | 16.2 | • | • | |
| 10000 | 18.8 | 14.2 | 15.2 | 11.6 | | 11.6 | 12.2 | 15.1 | 11.5 | 19.2 | 18.6 | 12, 5 | 13.0 | 16.0 | 10.8 | 11.4 1 | 15. | 5 15. |
| 12500 | 13.0 | 8.5 | 70° | 6 9 | 7:1 | 6.7 | 6.9 | 7.2 | 5.9 | 13.5 | 13.3 | 7.3 | 7.7 | 5.1 | • | | 9 | ۰. |
| 16000 20300 | | 4.2 | | | | 1.5 | 1.6 | 2•1 | ન | 7°4 1°5 | . 1 . 5 . 8 | 1.7 | 2 . 0 | | | • | 8 | e. |
| 25000 | | | | | | | | | | | | | | | | | | |

| NOISE SOURCE A-7 NOIS AF32A-24 | DISTANCE | INCE = | | 250 FEET | | 5 | ANGLE ANGOND SUCKCE | | | | | | | | | | | OMEGA | DMEGA 8.2 TEST 78-833-80 | 78-633-001 | - |
|--------------------------------------|-----------------------|--------|---|----------|-------|--|----------------------------------|---------------------------|--|-------------|--------|---|----------------|---------------------------|--------------|------------|----------|--------------|---|-----------------------|---------------------|
| | RCE/5 01 SE -24 | SUPPR | E SOURCE/SUBJECT: A-7 NOISE SUPPRESSOR AF32A-24 | | 5 | OPERATIONS IDLE P SINGLE GROUND | ONE E POM GLE EI UND RI | ER CS4 VGINE JNUP (| ATION: IDLE POMER (54,4% RPH) SINGLE ENGINE GROUND RUNUP (SUPPRESSED) | H) SSED) | | NETEOROLOGY I TEMP BAR PRES REL HUNI | PRESS HUNID | = 59 = 29.92) = 70 | 59 F 70 K | 9 T | | PROFILE PAGE | AUN 01 DACRATION CODE PROFILE VERSION 28 NOV 79 PAGE J1 | C00E C00E ERS10 | 633 86113 N A |
| | | | | | ā | PEPNLT | í t t | | | Ä | =AL | | | | - | T=ALT | | | | | ! |
| _ | <u>.</u> | | | ŧ | | | | | | | | | | • | | | | | | • | • |
| | | • | • | | • • • | • | • • • | • | - • • • • | • | • | • • • | • | • • · • | | • • • [| : | • | | • • • | |
| 82 | | | . • ' | | • • • | | • • • | | • • • | . • (| | • • | | • • | • | | | • • • | | • • | |
| 30 | | • | | | • | • | | • | | . • • | | • • | • | ••• | , · | • • | ď | • • | • | • • | |
| 94 | | • | • | | • • |)) | • • | • | • | • | , , | • • | • | . • | ⊢ | •• | <u>a</u> | • • | • | • • | |
| A 50 | | | • | • • | • • | | • • | | • • | • | | • • | | • AT | | • • | ۵ | • • | | • • | |
| 2 9 | د د | • | • | • | • • | • | • | • | • | • | • | • • | • | • • | ⊢ | • • | • | • | • | • | ~ ? |
| L E 70 | | | | | • • | | • • | | . • | . • | | • • | | | - | • • | ۵ | • • | | • • | |
| 8 | 90 | | - • | | • • | | • • | | • • | - • | | • • | | ٠, | - | • • | Φ. | •• | | • • | |
| 2 2 | و ر | • | • | • | • • | • | • | • | • | • | • | • • | • | • • | • | .4 | | • • | • | • | ~ ~ |
| D E 100 | 0 | | • | | • • | | • • | | •• | • | | • • | | • • | | AT. | | • • | • | • • | |
| R 110 | | • • | - • | | • • | | • • | | • • | • | | • • | | ٠, | - | • • | ٥ | • • | | • • | |
| E 120 | . ئ ھ | • | • | • | • • | • | • | • | • | • | • | • • | • | • | | • • | ď | • • | • | • • | ~ ~ . |
| 130 | , | • • | - • | • - | • • | | • • | | • • | - • | | • • | | • ► | | • • | ۵ | • • | | • • | |
| 140 | | | | | • • | | • • | | • • | - • | | • • | | • ∢ | - | • • | ٥. | • • | | • • | |
| 159 | . ن • | • | • | • | • • | • | • | • | • | • | • | • • | • | • • | : | • • | • | • • | • | • • | ~ ~ |
| 160 | | • • | - • | | • • | | • • | | • • | • | | • • | | • • | ⋖ | •- | | •• | | • • | |
| 170 | | | - • | | • • | | • • | | | • | | • • | | • • | ∢ | • 1- | | •• | _ | • • | ~ ~ |
| 180 | .:. | • | : | • | • • • | • | • • • | • | • | • | • | • • • | • | • • • | Α. | •-• | • | ••• | • | • • • | -:- |
| | į' | -10 | | - | 2 | - | 92 | | 30 | 07 | 40 | 200 | | 9 | | 2 | | 3 | | | • |

| TABLE: | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 250 | D PR | ESSURE | H : | (08) | | : | | | | | ' | | 010 | DENTIF OMEGA TEST 7 | ICATION: 8.2 8-633-00 | TION: 2 33-001 | |
|------------------------------|--|----------------------|--------------|---|--|--------------------------|-------------|----------------|-------------|----------------|---|--------------------------|---------------|---------------------|---------|---|---------------------------------|----------------------|---------------|
| NOISE A-7 A-7 | SOURCE/SUBJECT: NOISE SUPPRESSOR | 7 t s | | 0.0 7 0.0 8 0.0 8 0.0 8 0.0 | PERATIONS 70% RPM F SINGLE EN GROUND RL | ENGINE RUNUP RUNUP | | SUPPRESSED) | 1 ~ ~ ~ ~ ~ | | ETEOROLOGYS TEMP BAR PRESS REL HUMIO | 378 38 = 29 10 = 0 | 920 | IN HG | . AOANA | AIRCRAFT CODE OPERATION CODE PROFILE VERSIC PAGE C2 | FT CL ION CC E VERS 79 | CODE 83: CODE 00: | 833 A A 69 |
| (BAND CENTER (FREQ (HZ) | | 707 | 20 | 30 | 3 | 5.0 | 9 | ANGL 70 8 | . w.a | DEGREE 90 1 | ES) | 110 1 | 20 | 130 1 | 140 | 150 | 160 | | 180 |
| 22 | 82 | 82 | 76 | 73 | # | 80 | 7.3 | 75 | 75 | 76 | 75 | 74 | 7.8 | 76 | | 7.2 | 73 | 7.3 | 7.3 |
| 63 | 79 | 79 | 11 | 76 | 92 | 17 | 0 2 | 0.2 | 9 | 99 | 72 | 72 | 23 | 4.0 | | 7.2 | 73 | 7 . | 2 2 |
| 98 | 7.7 | 7.1 | 72 | 72 | 7.1 | 69 | 99 | 69 | 29 | 99 | 68 | 70 | 72 | 70 | | 29 | 89 | 89 | 68 |
| 100 | 7 0 | 69 | 70 | 72 | 69 | 65 | 62 | 29 | 99 | 69 | 6 2 | 70 | 11 | 99 | | 29 | † 9 | 94 | 94 |
| 125 | 68 | 20 | 77 | 72 | 69 | 63 | 29 | 9 | 61 | 49 | 9 | 49 | 29 | 63 | | 6 2 | 65 | 65 | 62 |
| 160 | -1 0 10 10 | 9 | 63 | 4 0 | . | 61 | 29 4 | 5 0 | 25 | 61 | ر ا ا | 50 10 10 | 57 | in i | | 00 i | 61 | 19 | 5 2 |
| 067) | 6.0 | 9 G | υ 10 υ 10 | 200 | 57 | 2 2 | 0 0 0 | # PS | 5 C | 7 7 9 | t 1 | 2 2 | 5 50 14 50 | 0 0 0 | , c | t t v o | ט מיים | 0 K | 0 10 10 10 |
| (315 | 58 | 25 | 54 | 54 | 52 | 52 | 54 | 64 | | 52 | 53 | 20 | 64 | 21 | | 64 | 20 | 20 | 20 |
| 004 | 58 | 25 | 52 | 54 | 53 | 53 | 25 | 64 | 51 | 20 | 54 | 64 | 50 | 50 | | 20 | 51 | 51 | 51 |
| 200 | 26 | 26 | 53 | 25 | 27 | 51 | 6 4 | *6 † | 20 | 51 | 25 | 4 8 | 20 | 25 | | 51 | 21 | 51 | 21 |
| 630 | 25 | 25 | 53 | 54 | 2 | 25 | J. | >6 | 21 | 25 | 25 | 48 < | 20 | 55 | | 53 | 21 | 51 | 51 |
| 000 | 57 | 52 | 4. | 52 | 53 | 51 | 90 | 48× | 25 | 20 | 25 | 48 × | | 25 | | 25 | <u>0</u> | 20 | 20 |
| 1000 | 56 | 52 | 3 h | in in | 50 I | 51 | 15 | ¥ 9 9 | 55 | 26 | 25 | æ (| 51 | 50 i | | 25 | 21 | 51 | 27 |
| 1690 | - E | 2 2 | ים ה | י ת ט ס | n S | 7 K | | 0 0 1 | и С п | 2.2 | 7 2 | ÷ č | 7 Y | ν α ν σ | | 7 L | 7 T | 24 | 7 2 7 |
| 2000 | 62 | 49 | 20 | 62 | 8 | 2.0 | 53 | 6. | 56 | 6.2 | o S | 53 | 2,7 | 61 | | . 09 | 25 | 57 | 57 |
| (2500 | 53 | 25 | 51 | 52 | 64 | 24 | 47 | 4 | 64 | 54 | 64 | 45 | 84 | 53 | | 25 | 6 | 0,4 | 5 |
| (3150 | 29 | 26 | 52 | 21 | 21 | 25 | 64 | 46 | 25 | 23 | 51 | 84 | 21 | 22 | | 46 | 5 5 | 54 | 54 |
| 0004 | 52 | 54 | 53 | 52 | 20 | 51 | 48 | 44 | 20 | 25 | 84 | 46 | 6 4 | 25 | | 25 | 25 | 52 | 25 |
| 5000 | 9 | 64 | 46 | 4 8 | 4 5 | 42 | † 1 | 38< | 47 | 25 | | ţ ŧ | 45 | 24 | | 64 | 64 | 64 | 64 |
| 6300 | 45 | 5 | 4 3 | 46 | † | 43 | 35< | 32< | 42 | 51 | | 45 | F3 | 51 | 47 | 45 | 47 | 24 | 14 |
| 8000 | 39< | | 37< | † 0 † | 38 < | 37 < | 28< | 5 0< | 39< | 64 | 39 | 36< | 37< | 4 | 47 | 36 | 47 | 47 | 24 |
| 10000 | 33< | 33< | 31< | 344 | 32 < | 31< | 21< | 50 < | 33 < | 43< | | 30< | 31< | 4 0 4 | 414 | 33< | 41 < | †1 < | 414 |
| COVERALL | \$ | 36 | 91 | 81 | 83 | 81 | 77 | 8.2 | 11 | 78 | 8.2 | 28 | 81 | 62 | 77 | 82 | 82 | 78 | 78 |
|) | | | | | | | | | | | , | | | | | | | | |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| (TABLE: | PER | | | | : | TANCE | FROM SOURCE | OURCE | | | | | | | | , | DENTIFICATIONS OMEGA 8.2 TEST 78-833-001 | 110NE | |
|---|--------------------------------------|--------------------------------------|---|--|--|--|--|---|-----------------------------------|--|--|--|---------------------------------------|--------------------------------------|---------|----------------------|---|---|------------------------------|
| NOISE A | CE/S 1SE 24 | SUPPRESSOR | SOR | • | OPERA 7 S 6 | NGLE NGLE OUND | - RUNUP ENGINE RUNUP | dans) | ESSED) | | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | SS | | 3 F 1 N HG | | | AUN DE AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE D2 | AUN US OPERATO CODE O PROFILE VERSION 28 NOV 79 PAGE D2 | 133 10109 A |
| (DISTANCE ((FEET) | - | 10 | 92 | 96 | 9 | 50 | 99 | 7.0 | ANGLE 80 | 08 | (DEGREES) 90 100 | 110 1 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 250 (250 (250 | 36.4 | 87.0 | 83.8 81.6 | 85. | 82.4 79.9 | 78.4 | 78.6 | 76.4 | 80.6 78.3 | 88 88 88 88 88 88 88 88 88 88 88 88 88 | 80.3 78.1 | 76.8 | 79.2 | 82.2 | 20 40 C | 83.0 | 81.8 | 81.8 79.5 | 81.8 79.5 |
| | 77.00 | 80.0 77.6 75.1 | 76.9 | 76.6 | 75.1 | 73.6 | 71.7 69.2 66.7 66.7 | | 73.6 71.1 68.6 65.8 | 78.4 | 4 00 00 00 00 00 00 00 00 00 00 00 00 00 | 71.6 69.1 66.6 | 72.0 | 77.5 | | 76.0 73.6 71.1 | 74.8 | 74.8 | 74.8 72.3 69.7 66.9 |
| 11000 11250 11250 1250 1250 1250 1250 12 | 000000 0000 0000 0000 | 66.9 66.9 66.9 67.4 67.4 | \$ 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 66. 67. 67. 67. 67. 68. | 64.50 64.50 66.60 66.60 66.60 | ************************************** | 55 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | 4 + 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 240000 24000 24000 24000 | 67.6 64.4 61.9 57.1 | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 60 57 57 57 57 57 57 57 57 57 57 57 57 57 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 666.7 56.9 56.0 51.4 | -0-10-1 | 5665 | | 6664 6664 6869 6869 6869 | 600004 60000 600000 |
| 00000000000000000000000000000000000000 | 1000 1000 1000 1000 1000 | 43.8 43.8 35.1 27.7 | 1 M M 4 C C C C C C C C C C C C C C C C C | 34.00 34.00 13.00 13.7 | 200 200 200 200 200 200 200 200 200 200 | 23.6 13.6 4.2 | 310 310 10 10 10 10 10 10 | 11.2 | 25.7 25.7 11.9 | 246 | 124 W C C C C C C C C C C C C C C C C C C | 150 150 150 150 150 150 150 150 150 150 | 41. 34.4 26.0 11.7 | 1000 1000 1000 1000 1000 | | 37.9 37.9 17.6 | 34.8 34.8 26.1 10.1 | 26.8 26.8 10.1 | 34.8 34.8 25.1 10.1 |
| 19008 (12500 (16086 (26006 | | | ! | 3°5 | | | | | ; | | | | | | | | | | |

| TABLES TONE-COR | TONE-C | CORRECTE | ED, PE | TONE-CORRECTED, PERCEIVED AS A FUNCTION OF ANGLE AND | O NOISI | ED NOISE LEVEL (PNDB) AND DISTANCE FROM SOURCE | (PNDB) | B) JURCE | | | | | | | | IDENTI OMEGA TEST | IDENTIFICATIONS OMEGA 8.2 TEST 78-833-001 | ONS 1-881 | |
|--|--|------------|--------------|--|---------------------------------|---|----------------------|--------------|-------------|------------|--|-------|------------------------|---------|-------|---------------------------------------|---|----------------------|----------------------------|
| NOISE SOURCE/SUBJECTS A-7 NOISE SUPPRES AF32A-24 | E SOURCE/SUBJECTS A-7 NOISE SUPPRES AF32A-24 | SUPPRESSOR | • | ! | OPERATIONS 70% RP SINGLE GROUND | PERATION: 70% RPH SINGLE E | ENGINE RUNUP | (SUPPRESSED) | ESSEDI | 20000 | METEOROLOGYS TEMP BAR PRES REL HUMI | yo e | * 59 *29.92 * 70 | N X H G | | AIRCRAFT OPERATION PROFILE 128 NOV 75 | | CODE & CODE & ERSION | DE 833 DE 8109 TON A |
| (DISTANCE (FEET) | | 97 | 20 | 98 | 3 | 50 60 | 0.9 | 7.0 | ANGLE 84 | 28 | EGREES) | 110 | 120 | 130 | 140 | | 160 1 | 170 | 100 |
| 200 | 88.4 | 89.8 | 85.7 | 87.8 | 83.6 | 82.0 | 79.8 | 76.4 | 82,1 | 86.9 | 81.7 | 80.6 | 83.6 | 85.2 | 65.0 | 85.0 82.7 | 83.8 | 63.8 81.5 | 83.8 81.5 |
| 250 | 86° ± | 85.2 | 83.4 81.1 | 85°5 | 81.8 78.8 | 79.6 | 75.3 | 7:1 | 77.5 | 82.3 | 77.1 | 22.0 | | 81.6 | | | | 79.1 | 79.1 |
| 004 | 81.4 | 82.9 | 78.8 | 80.6 | 76.4 | 74.8 | 72.9 | 69.3 | 75,1 | 79.9 | 74.8 | 73.4 | 74.1 | 76.7 | | | | 2.5 | 74.2 |
| 500 | 79.0 | 77.9 | 73.8 | 75.8 | 2 t 2 2 t 4 | 9.69 9.69 | 67.9 | 64.3 | 70.7 | 7.4.8 | 69.7 | 6.00 | | 74.1 | 74.0 | 73.0 | 71.6 | 71.6 | 71.6 |
| 000 | 73.8 | 75.3 | 71.1 | 73,2 | 68,7 | 2.99 | 65.3 | 61.5 | 67.3 | 1.57 | | 000 | | 7 | | | | • | , (|
| 1808 | 7 1.0 | 72.5 | 68.3 | 4 | 65,8 | 63.7 | 62.3 | 56.5 | 64,3 | 2.69 | 64.1 | 62.5 | 65.9 | 68.4 | 68.3 | 67.4 64.2 | 65.9 | 65. 9 62.5 | 65.9 62.5 |
| 1258 | 68.6 | | 65.1 | 67. | 62.7 F.9. A | 60°4 | 70°0 70°0 70°0 | 55.0 | 57.5 | 62.4 | 57.2 | 55° 6 | | 61.7 | 61.6 | | | 56.9 | 58.9 |
| 1600 | 6 to 0 | | 57.6 | 9 0 | , 10 2, 4 2, 0 | 52.6 | 51.1 | 46.5 | 53,5 | 58.6 | 53.1 | 51.0 | | 57.7 | 57.7 | | | 20.0 | 50.0 |
| 2200 | 56.4 | 57.9 | 53.1 | 55 | 6.64 | 47.5 | 46.0 | 41.4 | 48.7 | 54.2 | e . | 45.6 | | 55.1 | 12. C | | | W. P. | 43.5 |
| 3150 | 51.4 | 53.0 | 47.5 | N S | 4 to 2 | D M | 32.2 | 25.2 | 35.7 | 42° | 34.07 | 30.0 | 36.1 | 40.6 | 41.1 | 39.4 | | 36.4 | 36.4 |
| | 36.7 | 37.8 | 31.7 | 'n | 20 C | 23.7 | 21.3 | 11.2 | 26,5 | 34.7 | 25.5 | 16.9 | | 33.1 | 33.5 | 31.5 | 27.3 | 11.9 | 10.9 |
| 6300 | 26.7 | 28.8 | 19.3 | 24.7 | 13°B | 14.1 | 10.5 | | 12, 5 | 2.0 8.0 | 7.1 | • | 17.0 | 8.2 | 9.5 | 2.5 | | | |
| 10000 | | | | , př | } | | | | | | | | | | | | | | |
| 12500 | | | | | | | | | | | | | | | | | | | |
| 25600 | | | | | | | | | | | | | | | | | | | |

| (TABLES | A-VEI | A-WEIGHTED OVERALL | DVERALI | SOUN | . הבי | (DBA) | | 0 | | | | | | | |) IDENTI | IDENTIFICATION | HON | |
|--------------------|------------------|--------------------|----------------|-----------------|--|------------------------|-----------------|--------------|-------------|----------------|---------------------|----------------|--------------------------|---------------------------------------|-------|---|------------------------------------|--------|--------------|
| · | 4 24 | FORCE LON | 5 | ANGLE A | OTO ONE | DISTANCE | N EOX | SOURCE | | | | | | | | DIEST | 78-833-001 | 13-001 | |
| NOIS | E SOURCE/SUBJECT | UBJECT & | SSOR | | OPERI | OPERATIONS 70% RPM | 4 SUNUP | | | | METEOROLOGY TEMP | L 067 t | | 1 | | AIRC DPER | AIRCRAFT SPERATION | CODE | 833 06109 |
| | A-24 | | | | | SINGLE EI GROUND RI | ENGINE RUNUP | (SUPPRESSED) | ESSED) | ā | BAR I REL I | PRESS HUMIO | =29.92 = 70 • 0 DB | N HC | | PROF 28 N PAGE | PROFILE VE 28 NOV 79 PAGE F2 | RSION | ⋖ |
| (DISTANCE (FEET) | 0 | 9 T | 20 | e e | 9 | 50 | 0.9 | 0,4 | ANGLE 80 | E (DEGREES) | REES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| (260 | 71.3 | 71.5 | 68 | 70.5 | 66.9 | 65.5 | 54.5 | 61.9 | 66.1 | 71.1 | 65.5 | 63.4 | 66.2 | 69.8 | 69.0 | 68.1 | 66.5 | 66.5 | 66.5 |
| (250 | 69.1 | 4.69 | 9 | 4 6 8 4 | 8 ° 6 | 63.3 | 62.1 | 59.8 | 63.9 | 68.9 | 63.3 | 61.3 | 64.0 | 67.6 | • | 65.9 | 64.4 | 64.4 | 64.4 |
| 017 | 64.7 | 0 / ° C | 6.2 | 7 0 6 6 9 | 2 50 20 20 20 20 20 20 20 20 20 20 20 20 20 | 58.9 | 5.4.0 | 55.5 | 59.5 | 2 4 9 9 4 9 | 59.0 | 56.9 | 61.9 | 63.0 | ه. ۵ | 63.7 61.5 | 62 . 1 | 59.9 | 59.9 |
| 200 | 62.5 | 62.7 | 20 | 61.7 | 58.2 | 56.7 | 55.5 | 53.3 | 57.2 | 62.0 | 56.7 | 54.7 | 57.4 | 60.7 | | 59.2 | 57.5 | 57.5 | 57.5 |
| 636 | 64.1 | 60.3 | 57.5 | 59.3 | 50,0 | 54.3 | 53.1 | 51.0 | 54.8 | 59.6 | 54.4 | 52.4 | 55.1 | 58.2 | | 56.8 | 55.1 | 55.1 | 55.1 |
| | 21.1 | 6.76 | ç | 0 0 0 | v | 51.9 | 20.7 | , e | 25.4 | 57.1 | 52.0 | 20.0 | 25.7 | 55.7 | _ | 54.3 | 95.6 | 52.6 | 52.6 |
| 1000 | 55.2 | 55.4 | 52.5 | 5. | 51.0 | 4.64 | 48.2 | 46.2 | 49.8 | 54.4 | 49.5 | 4.2.4 | 50.1 | 53.0 | 52.5 | 51.7 | 50.0 | 50.0 | 50.0 |
| (1250 | 52.5 | 52.7 | 49.8 | 51. | 48.3 | 46.7 | 45.5 | 43.5 | 47.2 | 51.6 | 6.94 | 44.7 | 4.7.4 | 50.5 | 49.8 | 49.0 | 47.2 | 47.2 | 47.2 |
| 1606 | 49.4 49.4 | 40°6 | 46.9 | 4 4 | | 0.4 | 42.7 | 40.1 | * * * * | 48.7 | 44.1 | 41.8 | 4 . v | 47.3 | 6.6.9 | 46.1 | £ 6. W | M | F |
| 2500 | 43.4 | 4.00 | 4 0 0 5 0 0 | 42.1 | 39.1 | 37.7 | 36.5 | 34.5 | 38.2 | 42°2 | 38.0 | 35.3 | 4 10 4 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 40°0 | 9 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | 37.9 | 37.9 | 37.9 |
| 3150 | 39.9 | | 36. | 38. | | 34.2 | 33.0 | 31.0 | 34.7 | 38.6 | 34.5 | 31.6 | 34.4 | 37.1 | 36.9 | 36.1 | 34.2 | 34.2 | 34.2 |
| 0004 | 36.0 | 35.8 | 33 | 34 | 31.7 | 30.3 | 29.5 | 27.2 | 31.0 | 34.7 | 30.7 | 27.6 | 30.3 | 33.2 | 32.9 | 32.2 | 30.3 | 30.3 | 30.3 |
| | 31.7 | | 6 7 | 9 u | 27.4 | 26.1 | 25.0 | 23.0 | 26.8 | 30.4 | 26.6 | 23.3 | 26.0 | 28.8 | 28.5 | 27.8 | 26.0 | 26.8 | 50°0 |
| 0000 | 22.8 | 22.1 | 19.9 | 21.0 | | 17.5 | 16.3 | 14.5 | 17.8 | 20.8 | 17.9 | 14.6 | 17.0 | 19. h | 19.1 | 16.6 | 17.0 | 17.0 | 17.0 |
| - | | 17.6 | 4 | | 4 | | • | • | , | u u | | • | • | | | | | 6 | |
| 12506 | 13.0 | 13.1 | 1 = | 11.6 | 10.0 | 6.1 | 7.3 | 6.1 | 9.2 | 10.3 | | P. P. | 9.6 | 9.6 | 7.6 | 10.0 | F - 2 | 7.8 | 7.8 |
| 16000 | 9.3 | 8.8 | 6.6 | • | å | 6.4 | 2.8 | 2.0 | 3.2 | 6.4 | | 2.5 | 4.5 | | | * | | 8.8 | E . |
| 20000 | 5.4 | | 5 | 2° 9 | | 1.1 | | | | | | | 1.1 | . | | | | | |
| 00467 | | 7.0 | | | | | | | ٠ | | | | | | | | | | |
| (= | | | | | | | | | | | | | | | | | | | |

* 1987 . IS * 1987

| | AS A | A FUNCTION OF | N P | ANGLE A | AND DIS | DISTANCE | FROM SC | SOURCE | | | | | | | |) ONEGA | 74 | 78-633-001 | |
|---|------------------------|--|---|--------------|------------|--|--------------|---------------|-------------|-----------------------|--|------|---------------------------|---|-----------|---|---------------------------------|--|--------------|
| MOISE SOURCE/SUBJECT A-7 NOISE SUPPRES AF32A-24 | NOISE NOISE A-24 | E SOURCE/SUBJECT: A-7 NOISE SUPPRESSOR AF 32A-24 | SSOR | | OPERA | OPERATION: 78% RPH AUNUP SINGLE ENGINE GROUND RUNUP | | (SUPPRESSED) | (SSED) | | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | SS | # 59.92 #29.92 # 70 | 0 H H H H H H H H H H H H H H H H H H H | | PARCE PARCE | BZ RAFT PILE VI 10V 79 | CODE (CODE (| 633 00109 |
| DISTANCE | • | 16 20 36 | 88 | 9 | 3 | 99 | 99 | 92 | ANGLE 88 | : (DEGREES) 90 100 | (EES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 208 | 73.2 | 74.3 | 78.5 | 72.7 | 68.3 | 9.99 | 65.4 | 61.9 | 10 | 72.6 | 66.9 | 65.2 | 68.3 | 71.5 | 71.2 | 70.1 | 68.5 | 68.5 | 68.5 |
| 250 | 71.1 | | 68 | | 66.1 | 64.5 | 63.3 | 59.8 | 65.4 | 70.4 | 64.7 | 63.1 | 66.1 | 69.3 | 69.0 | 67.9 | 66.3 | 66.3 | 66.3 |
| 315 | 69.9 | 78.6 | | 4 • 4 9 9 | 9 4 9 | 62.3 | 61.2 | 57.7 ER. F | ٠. | 66.2 | 62.6 | 60.9 | 9 | 67.1 | 66.8 1 | 65.7 | 64.1 | 64.1 | 79 |
| 200 | 4 * 4 9 | | 61. | | 59.6 | 57.8 | 56.7 | 53.3 | . ~ | 63.5 | 58.1 | 56.5 | 20.0 | 62.4 | 62.2 | 61.1 | 59.5 | 59.5 | 59.5 |
| 630 | 62.1 | | | | 57.2 | 55.5 | 54.4 | 51.0 | m | 61.1 | 55.8 | | 57.2 | 59.9 | 59.8 | 56.8 | 57.0 | 57.0 | 57.0 |
| = | 9. 8. | | 56.9 | 28.0 | 54.0 | 53.0 | 51.9 | 48.6 | . | 58.6 | 53.4 | 51.8 | 54.8 | 57.4 | 57.3 | 56.3 | 54.5 | 54.5 | 54.5 |
| 1001 | 57.1 | | | 56.4 | 52, 3 | 51.5 | 4 6 4 | 46.2 | | 55.9 | 50.9 | 49.2 | 52.2 | 54.7 | 54.7 | 53.7 | 51.9 | 51.9 | 51.9 |
| 1250 | 54.5 | | | 53.6 | | 47.9 | 46.8 | 43.5 | | 53.2 | 48.3 | 46.5 | 49.5 | 51.9 | 52.0 | 51.0 | 49.2 | 2.64 | 49.2 |
| 161 | 51.7 | 52.7 | 4 9 . 8 | 50.7 | 6.9 | 45.1 | 43.9 | ¥8.7 | 45.8 | 50.5 | 45.5 | 43.6 | 46.6 | #8.8 | 49.1 | 46.1 | 46.2 | 7.94 | 46.2 |
| 2990 | 9.0 | | | 47.6 | | 42.1 | 41.0 | 37.7 | | 47.1 | 45.6 | 40.4 | 43.5 | 45.9 | 46.0 | 45.0 | 43.1 | 43.1 | 43.1 |
| 2516 | 45.4 | | 45.4 | m d | | 900 | 37.7 | 34.5 | | 43.8 | 40.6 | 37.1 | 707 | 42.5 | 42.7 | 41.7 | 39.8 | 39.8 | 39.8 |
| 212 | 41.0 | | | | 8 | 35.4 | 34.2 | 31.0 | N | 7.84 | 32° 9 | 33.4 | 36.5 | 38.9 | 39.1 | 38.1 | 36.2 | 36.2 | 36.2 |
| | 37.6 | | \$ 00 00 00 00 00 00 00 00 00 00 00 00 00 | 9 ; 9 ; | 32.7 | 31.5 | 30.1 | 27.2 | ~ 1 | 35.9 | 31.9 | 29.0 | 32.0 | 34.6 | 34.7 | 33.8 | 31.9 | 31.9 | 31.9 |
| 6346 | 27.0 | | 24.0 | 2 4 4 6 | , , , , | 20,0 | 21.0 | 1 2 5 | . 0 | 25.20 | * 000 | | 22.2 | 27.0 | 24.6 | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7.77 | 7.70 | 7.00 |
| 999 | 23.2 | 22.7 | | 21.4 | 187 | 17.7 | 16.5 | 14.5 | 18.1 | 21.1 | 18.2 | 15.0 | 17.4 | 19.7 | 19.5 | 19.0 | 17.4 | 17.4 | 17.4 |
| 1990 | 16.3 | 17.6 | 15.5 | 16.3 | 14.5 | 13.3 | 11.9 | 10.4 | 13.1 | 15.6 | 13.5 | 18.5 | 12.6 | 16.5 | 14.3 | 13,9 | ٠ | 12.4 | 12.4 |
| 12500 | 13.8 | | | | 10.3 | 9.1 | 7.3 | 6.1 | 9.5 | 10.3 | 6.9 | 9.4 | 4.0 | 9.6 | 4.6 | 9.1 | | 2. | 7.8 |
| 16000 | 9,3 | | | 7.0 | 6.3 | 6.4 | 2.8 | 2.0 | 3.2 | ; | 4.3 | 2.5 | 4.5 | 4.8 | .5 | * | 3.3 | 3.3 | 3.3 |
| 20000 | 4,4 | 9 1 | | 2.8 | 2.7 | 1.1 | | | | | | | 1.1 | * | | | | | |
| | | | | | | | | | | | | | | | | | | | |

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| | | TA | - 250 | - | | | | | | | | | | | 25 | OHEGA 6.2 TEST 76-833-001 | 833- | 10 |
|-------------------------|--------------------------|----------|---|---|--------|---|--------------------------|--------------------|------|-----------------------------------|----------|-----|------------|------------------|----------|---|------------|--------------------------|
| NOISE SO A-7 AF32 | OURCE, NOISE 2A-24 | 1 2 W - | E SOURCE/SUBJECT: A-7 NOISE SUPPRESSOR AF32A-24 | | 60 | OPERATION: 78.X PP RUNUP SINGLE ENGINE GROUND RUNUP (| R RUNU ENGIN RUNUP | E (SUPPRESSED) | 6 | HETEOF TE 81 81 DELTA | COLOGY 1 | | r H x | 9 | 2 | AIRCRAIN 02 AIRCRAIN CODE OPERAIN CODE PROFILE VERSION 28 NOV 79 PAGE JZ | N 2 6 5 | E 833 E 86169 ON A |
| | | | | | P=PNLT | NLT | | | AEAL | | | | H - | T=ALT | | | | |
| | ر ب ر ح | | | | • | | | • | | | | • | | ٠ | | | | |
| | • | - • | • | • | • | • | • | - • • • • | • | • | • | • | • | : ' | • | • | • • • (| • |
| | - - | | • • | | •• | | | • • | • • | | ,• • | • • | | - : • | | | • • | |
| | 58 50 50 | | • • | | • • | | | • • | • • | | • • | • • | 4 | • • | | • | • | |
| | | ٠ | • | • | • | • | • | • | • | • | • | • | • | . . . | • | • | • | • |
| | 3 | . · | • • | | •• | | | • • | • • | | | • • | AT | | | ٠. | •• | |
| < | 2 | ۰ - | • (| | • | | • | • (| • | | • | • | ÷ | • | | • 0 | • | ~ ~ |
| c Z | . | | • • | | •• | | | •• | • • | | • • | • • | - | • • | | ٠. | • • | ` ^ |
| ა _ | ن ـ چ | <u>.</u> | • | • | • | • | • | • | • | • | • | • | AT | • | • | • | • | • |
| ш | 20 | | •• | | • • | | | • • | • • | | • • | •× | | • • | ٩ | | • • | ` ~ |
| н | 8 | | • • | | • • | | • • | • • | • • | | | • • | ¥ | ٠. | | ٠. | • • | ^ ^ |
| z | 8 | | | , | • | , | . • | . • | • | | • | • | | • • | | | • | ~ - |
| | ? | • • | • | • | • | • | • | - • • • • | • | • | • | • | • | • | • | • | • • | : ^ |
| | - - | | • (| | • (| | • • | • • | • | | • | • | – | • | Q. | • | • | |
| | 110 | | • • | | •• | | | • • | • • | | | ٠. | - | | a | | • • | • • |
| | 120 C | _ : | • | • | • | • | • | • | • | • | • | • | - ¥ | • | • | . d. | • | ^ : |
| | 130 (| . | • • | | • • | | | • • | • • | | • • | • • | - | • • | | | • | ~ ~ |
| | | • | • | | • | | • | • | • | | • | • | • | • | | . (| • | - |
| | | | • • | | • • | | | • • | . • | | | • • | • | <u>.</u> • | | • • | •• | |
| | 3 8 8 | ٠. | • | • | • | • | • | • | • | • | • | • | _ ~ | • | • | • | • | • |
| | 760 (| | • • | | • • | | | • • | • • | | | • • | – | • • | | • | • • | • |
| | 170 (| - • | • • | | • • | | • • | • • | • • | | | • • | – | • • | | •• | • • | |
| | 180 (| . : | • • | • | • | • | • | • | • | • | • | • | - | • | • | • | • | ^: |
| | _ : | | | | • | | • | • | • | 1 | • | • | | • | | • | • | ^ |
| | • | | | | | | | | | | | | | | | | | } |

| TABLE: | AL IZE OCTAV ANCE | SOUND BAND 250 | O PRE FEET | SSURE | Ţ | ר (08) | • | | | | | , | | ì | i | DENTIF OMEGA TEST 7 | 12 28 | ON: | |
|--------------------------|---|----------------------|---------------|---------------------|-------------------------------|--|-----------|-------------------|------------|--------------------------|----------|---|----------------------------|------------|----------|---|----------------|------------|-----------------|
| 01SE A-7 AF32 | SOURCE/SUBJECT: Noise Suppressor A-24 | 50R | | OPER OPER SSI | RATION: 5.6% RP INGLE E | NA RPH RUNUP ENGINE RUNUP (SI | i 75 to 1 | UP (SUPPRESSED | | HETE BA BA BELT | S E E N | 571 SS = 2 IO = 0 | 9.92 7.0 7.0 0 DB | 1 | | KUN US AIRCRAFT OPERATION PROFILE V 28 NOV 79 | _ w_ | CODE 63: | 33 0118 A |
| BAND CENTER FREQ (HZ) | | 10 | 26 | 30 | 3 | 2 | 3 | ANGL 70 8 | , W C | 0E64E | ES) | 110 | 120 | 136 | 140 | 150 | 160 | 170 | 180 |
| ď | 11 | 77 | 77 | 7.7 | 76 | 74 | 75 | 74 | 7.3 | 75 | 7.2 | 72 | 24 | 74 | 7.4 | 73 | 24 | 2 | 7. |
| | 81 | 8 | 10 | 8 - | 92 | 92 | 92 | 2 | 2 2 | 23 | 7.2 | 2.5 | 8 2 | 6. | 2 2 | 2 2 | 2 2 | 92 | |
| 8 | 7.8 | 78 | 7.0 | 18 | 77 | 75 | 15 | 16 | 1. | 11 | 92 | 77 | 92 | 78 | 78 | 7.8 | 9. | 92 | |
| 100 | 80 | 90 | 83 | 82 | 81 | 11 | 92 | 42 | 9/ | 7.8 | 7.8 | 90 | 8.2 | 7.7 | 78 | 78 | 72 | 72 | |
| 125 | 85 | 85 | 88 | 83 | 82 | 4 | 74 | 73 | 92 | 81 | 81 | 81 | 81 | 2.2 | 79 | 11 | 90 | 90 | |
| 160 | 91 | 95 | 83 | 82 | 83 | 82 | 11 | 72 | 74 | 80 | 81 | 79 | 92 | 73 | 11 | 78 | 81 | 81 | |
| 20G | ₩ •0 | ۳ و و | 3 0 | 2 c | 2,2 | 85 | 81 | 5 6 | 40 | 80 | 0 l | 92 | 72 | 75 | 2: | 77 | ۲ ₂ | 79 | ۶ ا |
| 25 E | 0 T | 9 C | 0 0 | 2 ° | ۶ ۲ |) C | 9 ? | 2 9 | F 4 | C ; | ر د د | 22 | 25 | - • | 1, | S 6 | ۲, | ر د د | |
| 101 | 2.2 | , , | 9 6 | 7 2 | 1 1 | 2 0 | 1 1 | 2 2 | y 0 | 2 1 4 - | 7 2 | 7 2 | 5 6 | 9 4 | 9 4 | 7 6 |) | 7 0 | |
| 200 | 15 | 2 0 | 12 | 20, | 2 6 | 72 | 73 | 7.2 | 9 | 2.2 | 2.2 | 17 | 7. | 72 | 72 | 202 | 9.2 | 2 0 | |
| 630 | 73 | 20 | 7.0 | 7.1 | 69 | 7.0 | 71 | 2 | 9 | 11 | 20 | 29 | 99 | 69 | 69 | 2 | 29 | 29 | |
| 30.6 | 72 | 7. | 7.1 | 7.1 | 69 | 7.0 | 71 | 68 | 49 | 69 | 29 | 99 | 68 | 99 | 69 | 2 | 99 | 99 | |
| 1000 | 72 | 11 | 7.1 | 7.1 | 69 | 7.0 | 70 | 99 | 69 | 69 | 99 | 99 | 99 | 29 | 99 | 20 | 99 | 99 | |
| 1250 | 11 | 70 | 71 | 20 | 69 | 20 | 71 | 65 | † 0 | 69 | 99 | 99 | 29 | 99 | 29 | 69 | 6 8 | 99 | |
| 1600 | 72 | 7 | 7.1 | 70 | 70 | 20 | 72 | 68 | 6 4 | 68 | 99 | 99 | 29 | 99 | 29 | 29 | 29 | 29 | |
| 2000 | 7.0 | 99 | 99 | 29 | 29 | 99 | 69 | 90 | 61 | 92 | 49 | 9 | • | 79 | 49 | * | † 9 | 79 | |
| 2500 | 9 | 9 | 2 | 9 | 62 | 9 | 9 | 9 | † 0 | 63 | 63 | 29 | 29 | 63 | 62 | 4 | 63 | 63 | |
| 3150 | 62 | † | 9 | 2 | 19 | 79 | 9 | 9 | 61 | 9 | 9 | 29 | 2 | 29 | 29 | 61 | 9 | 9 | |
| 3004 | † 9 | | ÷ | 29 | 9 | 61 | 62 | 62 | 2 0 | 9 | 28 | 58 | 23 | 20 | 9 | 9 | 59 | 53 | 50 |
| 5000 | 9 | 23 | 9 | 2 0 | 26 | 2 0 | 61 | 23 | 21 | 2 9 | 25 | 26 | 21 | 22 | | 23 | 25 | 22 | 22 |
| 6300 | 58 | | 5 5 | 27 | 22 | 54 | 24 | 24 | 52 | 25 | 22 | 22 | 2 2 | 24 | | | 3 5 | 5 4 | 3 |
| 3078 | 24 | 24 | 22 | 53 | 20 | 20 | 52 | 54 | 53 | 53 | 25 | 25 | 51 | 20 | 25 | 55 | 20 | 20 | 20 |
| 1000 | 484 | + 8 × | 4 | * 2* | ** | > 7 7 7 | *6 | 64 | 20 | 48 | 74 | 46 | 454 | 44 | | *9 | *** | ** | ** |
| OVERALL | 78 | 16 | 95 | 93 | 96 | 89 | 87 | 78 | 78 | 88 | 6 | 87 | 96 | 96 | 87 | 87 | 87 | 87 | 18 |
| | | | | | | | | | | | | | | | - | | | | |

XXX< * EXTRAPOLATED OR INTERPOLATED SPL

| OISE SOURCE/S AF 32A-24 AF 32A-24 AF 32A-24 AF 32A-24 AF 32A-24 AF 32A-24 BF 32A-24 AF 32A-24 BF 32A-24 AF 32A-24 BF 32A-24 AF | 10 20 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95. | 0000000 | | AATION: 85.6X RPM SINGLE EN GROUND RUI 50.00 90. | 1 DZ | UP (SUPPRESSED) | | ~ | METEOROLOGY | 2 2 2 4 | | | |) RUN | RUN 83 AIRCRAFT ODEDATION | 2 | 33 |
|--|--|---|--|--|--------------|--------------------|------------------------|--------------|---|----------------|------------------------|--------------|-------|-------------------------------------|---------------------------------|--------|--|
| | | 30 30 30 30 30 30 30 30 30 30 30 30 30 3 | 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 50 96.4 94.2 92.0 92.0 | 1 | | SSED) | ~~~ | TEMP BAR PRE REL HUM DELTA N # | PRESS HUMID | = 59 =29.92 = 70 | E H X | | OPERATION PROFILE V 28 NOV 79 | | EKSTON | ************************************** |
| \$ | | 1 1 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 96.4 94.2 92.0 89.7 87.3 | | 92 | ANGLE 86 | 22 | EES) | 110 | 120 | 130 | 160 | 150 | 160 | 178 | 183 |
| | | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 00000000000000000000000000000000000000 | 92.0 87.1 87.3 | | | | 95.5 | 95.1 | 93.6 | 93.3 | 92.8 | 1.46 | 94.0 | 94.2 | 94.2 | 94.2 |
| 00000 00000 000000 00000 00000 00000 0000 | | 1 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 89.9 87.5 81.5 91.9 | 89°7 87°3 | | | | 92.2 | 90.8 | 91. 69. 2 | 91.1 | 86.2 | 89.5 | 89.5 | 89.8 | 89.8 | 89.8 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 8 8 8 8 1 8 1 8 | 87.3 | | | | 88.8 | 88.5 | 86.8 | 96.4 | 85.8 | 87.1 | 87.1 | 87.5 | 87.5 | 87.5 |
| 0 6.4 76.4 | | 70 7 | 81.9 | | | 84.6 82.0 | 82.3 79.7 | 85.3 83.6 | 3 0° 00 30° 00 30° 00 | 84. 3 81.6 | 83.9 81.2 | 83.4 60.9 | 82.1 | 84.6 82.1 | 85.8 82.3 | 85.8 | 82.3 |
| 81.4 78.4 | | • | | 81.8 | | | | 80.9 | 8.8 | 78.7 | 78.4 | 78.3 | 79.4 | 79.4 | 79.5 | 79.5 | 79.5 |
| 76.4 | | 81. | | 78.9 | | 4 | 74.1 | 78.2 | 78.2 | 76. 0 | 75.6 | 75.7 | 76.5 | 76.6 | 76.5 | 76.5 | 76.5 |
| | | 78 | | 75.6 | ٠. | M | 70.9 | 75.4 | | 73.1 | 72.6 | 72.5 | 73.4 | 73.7 | 73.3 | 73.3 | 73.3 |
| 75.4 | | ÷: | | 72.3 | m d | ٠, | 67.5 | 72.4 | 72.4 | 70.1 | 69.5 | 69.8 | 70.4 | 70.5 | 69.6 | 66.69 | 69.9 |
| . A | /U.U /U./ 66.1 66.7 | ق ت | | 65.0 | . a | . | ~ * * 6 0 0 0 | 65.2 | 65.3 | 63.1 | 62.5 62.5 | 63.B | 63.4 | 63.2 | 62.6 | 62.6 | 62.6 |
| 63.8 | | 61. | | 60.7 | | ~ | 54.5 | 6.09 | 61.0 | 56.7 | 59.5 | 50.7 | 59.1 | 59.0 | 56.3 | 56.3 | 56.3 |
| 59.0 | | 56. | 55 | 55.8 | • | ტ | 49.9 | 56.1 | 56.2 | 53, 8 | 53.3 | | 54.3 | 54.1 | 53.2 | 53.2 | 53.5 |
| . | | 50.00 | | 5.0 | ro e | 9 9 | 43.0 | 6 · 0 · 1 | | 48.2 | 47.7 | P . C . | 4.0.6 | 40°4 | 47.6 | 47.6 | 47.6 |
| 4 % | 40.1 40. | | 9 6 | 39.3 | * 0.7 | 36.7 | 29.5 | 40.0 | 40.2 | 36.2 | 35.7 | 36.6 | 36.5 | 36.5 | 36.4 | 36.4 | 36.4 |
| ; | | i | | ; | | | 1 | i | ì | 1 | , | | ; | ; | | | : |
| 10000 37.7 33.0 10500 34.0 02. | m 4 | 2 34.3 | 31.5 | 33.2 | 34.6 | 38.6 | 20.5 | 34.2 | 34.2 | 38.3 | 24.6 | 30.8 | 38.6 | 38.1 | 20.0 | 28.6 | 20.0 |
| 22.0 | 12. | | | 16.0 | | 3.0 | 7 | 18.0 | 19.6 | 11.6 | 10.4 | 13.0 | 12.2 | 11.3 | 6 | 9.6 | 9.6 |
| 11.2 | | | | 2.5 | - | 4.6 | | 9.0 | 8.3 | 6. | | 2.2 | 1.0 | • | | | • |
| | | | | | | | | • | | | | | | | | | |

| | ME 833) | 2 | 94.0 | 60.1 77.2 73.9 | 74.6 67.1 63.3 53.9 | 20 30 30 30 30 30 30 30 30 30 30 30 30 30 |
|---|--|---------------------|--|----------------------|--|---|
| 10Ns 3-001 | CODE N CODE VERSION | 170 | 94.9 | 68.1 77.2 73.9 | 0 4 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 22 344 9 6 6 6 |
| IDENTIFICATIONS ONEGA 0.2 TEST 70-033-001 | WS RAFT RTTON ILE VE DV 79 | 160 | \$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | + 40 | | - |
| IDENTI ONEGA TEST | AIRCRAFT OPERATION PROFILE V 26 NOV 79 PAGE E3 | 150 | 94949 | | | - WW - HWNO |
| ~~~ | | 140 1 | 94.19 | | 500.4 600.4 600.4 600.4 600.4 600.4 | |
| | 9 | • | - A M M - 4 | | | |
| | 59 F 92 IN 70 X | 130 | 9 | 6 65 | 64.0 64.0 54.0 54.0 | 4 m m m m m m m m m m m m m m m m m m m |
| | = 29. | 120 | 93.9 91.7 89.4 87.1 | 79.0 | 70°1 66°1 53°1 53°1 53°1 53°1 | 229.6 121.0 121.0 12.4 |
| | PRESS HUNID | 110 | 93.6 | 76.7 76.8 73.1 | 70.1 66.8 63.1 58.7 53.8 | 36.2 36.2 122.3 111.6 |
| | HETEOROLOGY TEMP BAR PRE REL HUN | EES) 100 | 00000000000000000000000000000000000000 | 76.2 | 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | |
| | # 00 | (DEGREES) 90 100 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 80.9 78.2 75.4 | 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 100 PP |
| | SSEO) | ANGLE Bu | 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 666.00 666.00 7.00 7.00 7.00 7.00 | - 4 5 5 5 |
| DB) SOURCE | JP (SUPPRESSED) | 7.0 | 995.7 4.095.7 5.7 5.7 | | | AMED ED-IMA |
| ROM | RPH RUNGP ENGINE RUNUP (S | 60 | 00000000000000000000000000000000000000 | | - | |
| w | | 96 | 40.00 | | 52.3 665.9 755.0 | |
| NOISE LEV DISTANCE | OPERATIONS 65.6% SINGLE GROUND | 3 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | * * | 00000000000000000000000000000000000000 |) 4 |
| ELVED N | | 98 | 000000000000000000000000000000000000000 | | 50000000000000000000000000000000000000 | teru un |
| PE | <u>«</u> | 50 20 | 000000000000000000000000000000000000000 | . W . T + | 75.5 67.6 67.6 63.6 75.4 63.4 63.4 | • • • • • • |
| TONE-CORRECTED, AS A FUNCTION OF | | 10 2 | 997 997 997 997 997 998 998 998 998 998 | | 0 K K J M J | |
| -CORR | SUBJE | ŧ | 14 TO 10 CM | | | 14 |
| TONE AS A | RCE/ OISE -24 | | 999 | 8 % 7 9 . | 96969 | # # # # # # # # # # # # # # # # # # # |
|) « | NOISE SOU | DISTANCE (FEET) | 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 800 1000 1250 | 2000 2000 2000 3000 3000 3000 3000 | 11.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 15 | | ij. | , | | | , |

| NOISE SOURCE/SUBJECT: | | FUNCTION OF A | ANGLE A | AND DIST | DISTANCE | FROM S | SOURCE | | | | | | | |) OMEGA | SA 8. | 2 33-001 | |
|-----------------------|---|---------------|---------|----------------|----------|--------|--------------------------|---|---------|--|------|------------------|---|--------------|---------------|--|--------------|-------------------|
| | UBJECT 1 SUPPRESSOR | æ | | 0 PE R | - " ш □ | 1 215 | NUP E (SUPPRESSED) | ESSED) | 2000 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | SSE | = 29.9 = 29.9 | 2 F H H H H H H H H H H H H H H H H H H | | PARCE SERVING | RUN 03 AIRCRAFT CO OPERATION CO PROFILE VERS 28 NOV 79 PAGE F3 | A R S | 633 00118 A |
| | 10 20 | 82 | 8 | 3 | 35 | 3 | 2 | ANGLE | | OEGREES) | 11 | 120 | 130 | 146 | 150 | 160 | 170 | 180 |
| 5.0 | 83.4 | 9.40 | m | 62.1 | 65.5 | 83.2 | 80.0 | | 81.6 | 81.5 | 79.5 | 79.4 | 79.3 | 80.1 | 80.6 | 80.1 | 88.1 | 80.1 |
| 82.9 | 81.3 | 61.9 | 40 | 90.0 | 90.4 | 61.1 | 77.9 | 74.8 | 79.8 | 79.4 | 77.4 | 77.3 | 77.2 | 78.0 | 78.5 | 76.1 | 78.1 | 78.1 |
| 78.7 | 77.1 | 77.7 | * ~ | 75.7 | 76.1 | 76.8 | 73.5 | 70.4 | 75.5 | 75.2 | 73.2 | 73.1 | 73.0 | 73.7 | 74.3 | 7.00 | 73.8 | 73.8 |
| * | 74.8 | 75.4 | ŝ | 73.5 | 73.9 | 74.6 | 71.3 | 68.1 | 73.3 | 73.0 | 71.0 | 70.9 | 70.8 | 71.5 | 72.0 | 71.5 | 71.5 | 71.5 |
| 74.7 | 72.4 | 73.8 | 72.7 | 71.2 | 71.5 | 72.3 | 69. ti | 65.0 | 71.1 | 70.8 | 66.7 | 68.6 | 68.5 | 69.2 56.4 | 69.6 | 69.2 | 69.2 66.8 | 69.2 |
| | | | } | 3 | | | | ; | ; | | | ; | 3 | } | | 3 | | } |
| 9° | 4.29 | 68.0 | 2 | | 66.6 | 67.4 | 64.2 | 60.6 | 66.3 | 66.0 | 63.9 | 63.6 | 63.8 | 64.4 | 65.0 | 64.3 | 64.3 | 3 |
| 63.9 | 61.9 | 62.4 | 62°0 | 0 % 0 0 % 0 | 64.E | 62.2 | 59.0 | , v 50 50 50 50 50 50 50 50 50 50 50 50 50 | 61.1 | v 60. | | 58.7 | 58.7 | 59.2 | 59.8 | 58.9 | 58.9 | 56.9 |
| 7 | 58.9 | 59.4 | 8 | 50.0 | 50.4 | 59.4 | 56.3 | 52,5 | 58.4 | 58.5 | 55.9 | 55.9 | 56.0 | 56.4 | 57.8 | 56.0 | 56.1 | 56 |
| • | 55.7 | 56.2 | å | 54.8 | 55.3 | 56.3 | 53.3 | 4.64 | 55.3 | 55.0 | 52.7 | 53.0 | 53.1 | 53.4 | 54.0 | 52.8 | 52.8 | 52.8 |
| به د | 52.3 | 52.8 | | 51,3 | 51.9 | 53.0 | 50.0 | 7.94 | 51.8 | 51.5 | 69,3 | 49.7 | 6.64 | 50.5 | 50.0 | 40.4 | 4.64 | 6 |
| 96.0 | 6 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 49.1 | å | 2 4 | 7.04 | 7 | 40.4 20.4 | | 1 0 2 7 | 0 | 40.0 | 1001 | 200 | 100 | 7.74 | 47.0 | | , |
| 2 | 40.2 | 40.7 | 4 | | 39.8 | FB. 7 | 37.8 | | 30.6 | 8 | 36.8 | 37.7 | 37.9 | 38.2 | 38.9 | 37.1 | 37.1 | 37 |
| 38.2 | 36.0 | 36.5 | | 35.0 | 35.7 | 36.6 | 33.8 | | 35.6 | 35.2 | | 33.7 | 34.6 | 34.2 | 34.8 | 33.1 | 33.1 | 33.1 |
| 9 | 31.6 | 32.1 | 32. | | 31.4 | 32.3 | 29.6 | 25.4 | 31.5 | 31.3 | 28.9 | 29.4 | 29.8 | 30.0 | 30.5 | 28.6 | 28.8 | 28.8 |
| 29.5 | 26.9 | 27.5 | 27. | 26.1 | 26.7 | 27.6 | 25.1 | 20.7 | 27.1 | 27.1 | 24.6 | 24.8 | 25.3 | 25.4 | 25.7 | 24.2 | 24.2 | 24.2 |
| 24.8 | | 22.7 | 22. | | 21.8 | 22.6 | 20.2 | 15.7 | 22.4 | 22.6 | 28.0 | 19.8 | 28.4 | 21.5 | 28.7 | 19.5 | 19.5 | 19.5 |
| 19.8 | 17.2 | 16.0 | 16.2 | 16.5 | 16.7 | 17.3 | 14.0 | 10.6 | 17.4 | 17.8 | 15.1 | 14.5 | 15.1 | 15.3 | 15.3 | 14.6 | 14.6 | 14.6 |
| 4 | | • | | | | | | | | | | | | | | | | |

| NOISE SOU | 4 04 | A FUNCTION OF | | ANGLE A | 9 | DISTANCE | FROM S | SOURCE | | | | | | | |) TEST | • | 1-001 | |
|--------------------|--------------|---------------|------|---------|-------------------------|--|---------------------------------------|--------|-------|------|---|---|----------------------------|---|--------------|--|-------------|---------------------------------|---------------------|
| AF 32 | RCE/ 01SE | BJECT 8 | 1 | | O PERA O PERA O O | RATION: 85.6% R SINGLE GROUND | RPH RUNUP ENGINE RUNUP (S | UP | ESSEO | | METEOROLOGY TEMP BAR PRE: REL HUM DELTA N = | PRESS HUMID | = 59.92 = 29.92 = 70 | 2 X X X X X X X X X X X X X X X X X X X | | AIRCRAF DOPERATI PROFILE 28 NOV PAGE G | | CODE 8. N CODE 9. VERSION | 833 00118 - A |
| DISTANGE (FEET) | | 10 | 20 | 30 | 3 | 20 | 99 | 2 | ANGLE | | (DEGREES) | 110 | 120 | 130 | 140 | 150 | 169 1 | 170 | 180 |
| 280 | 85.6 | 9. | 6.49 | 4.5 | 82.6 | 82.5 | 63.9 | 80.7 | 78.1 | 81.8 | 81.5 | 79.5 | 80.1 | 300.6 | 80.1 | 89.6 | 50 P | 80.8 | 80.8 |
| 315 | 81.4 | | 86.6 | | 7.8.4 | 78.3 | | 76.4 | 73.8 | 77.7 | | 75.3 | 75.9 | 76.2 | 75.9 | 76.4 | 0 | 9.0 | 76.6 |
| 004 | 79.3 | | 78.6 | | 76.3 | 76.1 | 77.5 | 74.2 | 71.6 | 75.5 | | 73.2 | 73.7 | 74.0 | 73.7 | 74.3 | | * | 74.4 |
| 200 | 77.1 | | 76.3 | 76.0 | 74.0 | 73.9 | 75.3 | 72.0 | 69,3 | 73.3 | | 71.0 | 71.5 | 71.8 | 71.5 | 72.0 | ٠. | 2.5 | 72.2 |
| 900 | 72.4 | 71.6 | 71.5 | 71.2 | . 6 6 8 | 69.1 | 70.6 | 67.3 | | 68.7 | 69.4 | 66.3 | 6.99 | 67.3 | 9.69 9.99 | 67.4 | 67.4 6 | 67.4 | 67.4 |
| | | | | | | | | | | | | | | | | | | | |
| 1000 | 69.0 | | 69.3 | | | 9.99 | 68.1 | 64.9 | 62.0 | 66.3 | 66.0 | 63.9 | 64.5 | 64.9 | | 65.0 | σ | 6.40 | 64.9 |
| 1250 | 67.3 | 65.3 | 66.2 | 65.0 | 6 to 1 | 64.0 | 65.6 | 62.4 | 59,3 | 63.7 | 63,5 | 61.3 | 61.9 | 62.4 | 61.8 | | m i | 62.3 | 62.3 |
| 1000 | • | | 200 | | # u | 2 0 0 0 0 | , , , , , , , , , , , , , , , , , , , | 73.6 | 20.0 | 100 | | 7 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 2.4 | 27.0 | 7.66 | | | | |
| 2500 | 58.6 | | 57.2 | | 50.00 | 200 | 57.0 | 26.0 | 50.0 | 55. | 20.00 | | 53,6 | 26.2 | 23.6 | | | 2 | 53.5 |
| 3150 | 55.2 | | 53.7 | | 51.9 | 51.9 | 53.7 | 50.7 | 47.2 | 51.8 | 51.5 | £ 64 | 50.3 | 50.9 | 50.5 | | | 0.0 | 50.0 |
| 4000 | 51.3 | | 40.8 | | 46.0 | 48.2 | 49.8 | 46.9 | 43,3 | 48.1 | 47.5 | | 46.6 | 47.1 | 46.5 | ~ | -4 | 1.9 | 46.1 |
| 5000 | 47.0 | | 45.6 | | 43.7 | 44.1 | 45.6 | 45.6 | 38.9 | 43.9 | 43.3 | 41.3 | 45.4 | 45.8 | 42.5 | e. | or. | 1.9 | 41.9 |
| 6308 | 45.4 | 40.4 | 41.1 | | 39.5 | 39.8 | 41.0 | 38.0 | 34.3 | 39.4 | 38.8 | 36.8 | 38.0 | 38.3 | 36.2 | 38.9 | 37.3 3 | 37.3 | 37.3 |
| 9000 | 38.4 | 36.2 | 36.7 | 36.4 | 35.1 | 35.7 | 36.6 | 34.0 | 30.0 | 35.6 | 35.2 | 33. 0 | 33.8 | 34.2 | 34.2 | 34.8 | ~ | 3.2 | 33.2 |
| 10000 | 34.0 | | 32.1 | | 30.7 | 31.4 | 32.3 | 29.6 | 25.4 | 31.5 | 31.3 | 28.9 | 29.4 | 29.8 | 30.0 | 30.5 | ₩. | 28.8 | 28.8 |
| 12500 | 29.5 | | 27.5 | | 26.1 | 26.7 | 27.6 | 25.1 | 20.7 | 27.1 | 27.1 | | 24.8 | 25.3 | 25.4 | 25.7 | ~ | 2.4 | 24.2 |
| 16000 | 24.8 | 22.1 | 22.7 | 22.8 | 21.4 | 21.8 | 22.6 | 20.2 | 15.7 | 22.4 | 22.6 | 20.0 | 19.8 | 20.4 | 20.5 | 20.7 | 19.5 1 | 19.5 | 19.5 |
| 20000 | 19.6 | | 18.0 | | 16,5 | 15.7 | 17.3 | 16.8 | 10.6 | 17.4 | 17.8 | 16.1 | 4 4.5 | 15.1 | 15.3 | 15.3 | | 9 . 4 | 14. F |
| | | | | | | | , | | | | | | | • | ,,,, | , | • | • | |

|) | DISTANCE | Z | и | 250 F | 250 FEET | | :EET | | | ; ! | | | | | | | | | | | | MEG/ |) OMEGA 8.2) TEST 78-833-801 | 1 8.2 78-833-001 | 2 |
|-------------------------|----------------|-------|---|-------|----------|--|---|-----------------------|---|-----------------------|--------------------|------|------------|-----|------------------------------------|--------------|-------|------------------------|-------|-------|--------|---|---|---------------------|--------------------------|
| NOISE SO A-7 AF32 | NOISE NOISE | | E SOURCE/SUBJECT: A-7 NOISE SUPPRESSOR AF32A-24 | SSOR | | | OPERATIONS 65.6% SINGLE GROUND | TION 5.6% INGLE | ATION: 45.6% RPH RUNUP SINGLE ENGINE GROUND RUNUP (S | RUNGE INE UP (S | UP (SUPPRESSED) | SSEO | • | #ET | HETEOROL TEMP BAR P REL P | PRES HUMI | 1710 | 9.92 70 70 08 | E I | | | RUN AIRCR OPERA PROFI 28 NO | RUN 03 AIRCRAFT CODE 9 OPERATION CODE 9 PROFILE VERSION 26 NOV 79 PAGE J3 | COU FERSI | E 633 E 86116 On A |
| | | | | | | _ | PEPNLT | _ | | | | | A=AL | | | | | | TEALT | - | | | | | • |
| | ل با ھ | • | | | | | | | | | | | | | • | | | | | • | | • | | • | Î |
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| | 9 | • • | , , | • | • | • | • | • | • | • | • | • | - • • • | • | • • • | • | • | • | • | · | • | • | • | • • · | • |
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| ىـ ق | ತ 5 | • • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | ۲. | • | • | • | • | • |
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| | د . 8 | • • | • | • • | • | • | • | • | | • | • | • | • | • | • • | • | • | | • | . × | • | • | , | • (| - 7 |
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| 44 04 W | 110 | • | | • • | | . • ' | | | • | | • | | • | | • • | | • | | × | • • | | ٠. | | • | • |
| | 120 (. | • | • | • | • | • | • | • | • | • | • | • | • | • | • • | • | • | • | .AT | • | • | • • | • | • • | • |
| | 130 (| • • | | • • | - | | • - | | • • | | • • | | • • | | • • | | • | | AT | • • | | •• | _ | • • | ^ ^ |
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| 4 | 170 (| • | | • | | . • | | | | | • | | • • | | • • | | • | _ | AT | • ,• | | • • | • | • • | ~ |
| # | 188 (- | • • | • | • • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | TA . | • .• | • | • | : | • • | ^; |
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| | - | • | | | | ֓֞֞֞֞֞֜֞֟֓֓֓֓֓֟֓֓֓֟֟֓֓֓֓֟֟֓֓֓֓֟֟֓֓֓֓֓֟֓֓֓֡֓֡֓֡֡֡֓֡֓֡֓֡֡֡֓֡֡֡ | | | : | | | | | | | | | | | | | | | | î, |

| TABLE | NORMALIZED 1/3 OCTAVE DISTANCE = | D SOUNCE BAND | FEE | ESSURE | SURE LEVEL | (08) | | | | | | | | | 010 | DENTIF ONEGA TEST 7 | 11 2 E | ON: | |
|------------------------------|--|---------------|--------------|------------|--|----------------|---------------------|------------|--------------|------------|-------------|-------------|---|--------|-------|----------------------------------|------------|---------------------------|--|
| NOISE A-7 AF32 | SUPPR | - 8 | | 0 | RATION: ILLITARY INGLE EI ROUND R | 4 2 3 | ER (9 E (SUPI | | 6 | | | | 7 9 8 1 2 2 4 2 4 2 4 2 4 4 4 4 4 4 4 4 4 4 4 | 9 I | 20000 | IRCRA PERAT ROFIL 8 NOV | | CODE 8 CODE 6 RSION | 8333 8318 8318 8318 8318 8318 8318 8318 |
| (BAND CENTER (FREQ (HZ) | ; ; | 9 | 20 | 92 | 9 | 50 | 99 | ANG 1 | 80 | DEGRE! | ES) | 101 | 20 1 | 30 1 | 9 | 150 | 160 | 170 | 180 |
| 250 | 7.8 | 79 | 81 | 80 | 80 | 83 | 81 | 81 | 69 | 82 | 82 | 82 | 81 | 82 | | 77 | 92 | 92 | 92 |
| 63 | 83 | 82 | | 81 | 81 | 82 | 82 | 79 | 81 | 82 | 81 | 91 | 81 | 80 | | 80 | 79 | 79 | 79 |
| 98 | | 82 | | 82 | 82 | 83 | 80 | 80 | 78 | 81 | 81 | 81 | 82 | 81 | | 00 | 79 | 79 | 79 |
| 100 | 18 | 81 | 91 | 80 | 46 | 62 | 79 | 82 | 82 | 83 | 7 8 | 85 | 82 | 81 | | 92 | 52 | 22 | 25 |
| 125 | 10 d 10 e | 10 q | 57 d 10 d | 57 q | 20 a 20 a | () () | 8 Z | | 60 4 10 4 | 9 2 | ± u | ± 4 €0 € | M 6 | 62 | | 6, | 4 P | T 6 | 7 P |
| 500 | 3 6 | | | 9 | 9 0 | 9 6 | 9 9 | 1 3 | 1 1 0 0 | 0 0 0 0 | 8 6 6 | 9 9 | 3 4 | 0 M | 0 M | 4 E | 2 4 | 9 9 7 | 0 6 0 |
| 062 | 36 | 87 | 87 | 92 | 82 | 88 | 87 | 82 | 83 | 98 | 82 | 81 | 81 | 81 | | 94 | 82 | 85 | 82 |
| (315 | 83 | 82 | 9 | 81 | 82 | 81 | 81 | 91 | 62 | 96 | 96 | 83 | 80 | 79 | | 90 | 81 | 81 | 81 |
| 904 | 91 | 82 | 49 | 82 | 82 | 1 8 | 82 | 48 | 80 | 87 | 89 | 81 | 79 | 7.8 | | 81 | 80 | 90 | 80 |
| 986 | 69 | 83 | | 83 | 82 | 82 | 81 | 82 | 79 | 87 | 86 | 90 | 81 | 79 | | 83 | 81 | 81 | 81 |
| 630 | 87 | 93 | 82 | 83 | 81 | 82 | 81 | 63 | 53 | 92 | 93 | 79 | 81 | 8.2 | | 38 | 78 | 7.8 | 78 |
| 900 | 9 9 | 4 | | 99 90 | 85 | 8 | 82 | M (| 80 | # (| 85 | 90 1 | 81 | 6/ | | 9 9 | 7.8 | 78 | 4 |
| 1000 | 9 2 | 8 9 9 | | 85. | 8 | 80 0 | 85 | 29 | (D) | 85. | 8 1 1 | 52 | 80 | 94 | | 61 | 61 | 61 | 61 |
| 1550 | 2 C | 0 ¢ | 0 K | 1 E | ⊅ 6 | ο « | 1 4 | ο « γ • | 1 :: 2 :: | 1 × | -1 C | £ 6 | 5 A | 9 4 | | 75 | 75 | 24 | 75 |
| 2,00 | 2 8 | 2 | | 22 | 22 | 62 | 9 2 | 5 | 8 2 | 78 | 22 | 92 | . * | 22 | | 72 | 73 | 73 | 2 10 |
| 2500 | | 77 | 7.8 | 15 | 22 | 92 | 92 | 77 | 25 | 92 | 75 | 73 | 72 | 72 | | 20 | 20 | 70 | 20 |
| (3150 | 75 | 7.4 | 92 | 73 | 74 | 75 | 7.4 | 4 / | 73 | 73 | 73 | 11 | 7.0 | 20 | | 29 | 68 | 6.8 | 89 |
| 3004 | 73 | 73 | | 73 | 73 | 73 | 72 | 73 | 7.1 | 72 | 72 | 70 | 69 | 99 | | 29 | 29 | 29 | 29 |
| 2000 | 69 | 69 | 7.0 | 69 | 69 | 69 | 29 | 69 | 99 | 99 | 29 | 99 | 99 | 63 | | 9 4 | 65 | 6 5 | 69 |
| 30 | 68 | | | 29 | 29 | 29 | 49 | 29 | 6 4 | 99 | 99 | 9 4 | 63 | 29 | | 61 | 62 | 29 | 62 |
| 9000 | 63 | 63 | 6 2 | † 9 | ż | | 61 | 63 | 61 | 6 2 | 62 | 9 | 9 | 56 | | 26 | 28 | 23 33 | 28 |
| 10000 | 52 | 24 | 25 | 26 | 22 | 26 | 53 | 53 | ű, | | 52 | 51 | 25 | 64 | | 20 | 53 | 53 | 53 |
| (OVERALL | 66 | 4 | 26 | 96 | 95 | 96 | 95 | 95 | 50 | 16 | 96 | 1 6 | 93 | 36 | 95 | 95 | 95 | 36 | 36 |
|) | | | | | | | | | | | **** | 11111 | | | 1 | | | | |

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|--|---|---|---|---|---|
| 0033 A A | 180 | 101.6 99.4 97.2 | 92.7 90.1 87.4 | | 32.2 23.2 9.9 |
| | 170 | 99.6 | 92.7 90.1 87.4 | 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 22.2 23.1 9.9 |
| ₹ 200 | 9 99 | 99.4 97.2 | 92.7 | | 22.4 23.6 23.6 20.6 20.6 20.6 |
| IDENTIFIC ONEGA 8 TEST 78- RUN 04 RUN 04 AIRCRATIO OPERATIO |) PAGE 158 | ₩. | | 4455447775 P: | 33.9 25.9 12.9 |
| | 140 | - | | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | 30.0 |
| ri St | 30 1 | - | | N N N N N N N N N N N N N N N N N N N | 20.0 20.0 20.0 20.0 20.0 20.0 |
| 59 | 7 9 | ** | | *********** | 38.5 28.5 28.7 28.9 9.9 |
| | 9.6 | 5 102 5 100 5 100 5 97 6 97 | . o + v | 0003k60000 | 9466 |
| EOROLOGY 8 BAR PRESS | # = = = = = = = = = = = = = = = = = = = | 8 M M M | 2 92. | 60000111001 1 4 | 7 37. |
| METEO B |) DELTA (DEGREES) | 3 105. 2 103. 0 101. | 92. | | 2 2 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| | 0. | 106. 104. 102. | 97. 95. | | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| OURCE R (97.7) | ANGLE 80 | 103.9 101.8 99.6 | 90.4 | | 31.6 31.6 21.1 6.9 |
| SOURCE ER (97.) | 2 | 165.3 103.1 100.9 | 93.8 93.8 | | 36.8 36.8 18.6 |
| FROM S V POWE ENGINE | 69 | 104.9 | 90.00 | 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 34.4 25.1 11.7 |
| DISTANCE FROM SOU ERATIONS MILITARY POWER SINGLE ENGINE | 50 | 105.7 103.5 101.3 | 96.6 94.1 91.6 | 66 57 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 35.4 26.8 13.6 |
| AND DIS | 3 | ⊕ ™ ∪ | 6 % 6 | | 34°4 34°4 15°4 |
| . w i | 99 | 7 5 5 5 K | | | 36.1 26.6 15.3 |
| SE L OF | 10 20 | - ame | | | 37.3 27.3 29.3 |
| IVED NOISE FUNCTION OF UBJECTS | 97 | 106.7 1 104.5 1 102.3 1 | | 10 00 00 00 00 00 00 00 00 00 00 00 00 0 | 36.8 29.5 16.2 |
| PERCEIVED AS A FUNCT RCE/SUBJE(OISE SUPP | | un at to co | | | 42.7 42.7 35.9 27.8 |
| Sou 32A | INCE T) | | | | |
| TABLES OF THE STATE OF THE STAT | DISTANCE (FEET) | 200 250 315 | - W - G - G - G - G - G - G - G - G - G | 11000000000000000000000000000000000000 | 16000 26000 25000 |

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| | י נ | FUNCTION | ON OF | ANGLE | AND DI | DISTANCE | FROM S | SOURCE | | | | | | | |) TEST | | 76-833-001 | |
|-------------------------|---|---|--|-------------------------|------------------------|--|--|-------------------------|----------------------|--|--|-------------------------------|--------------------|--------------------------|------------------------|---|--|---|-----------------------|
| 7 A A | OURCE/S NOISE 2A-24 | RCE/SUBJECT I OISE SUPPRESSOR -24 | SSOR | | 0 PER | RATIONS MILITAE SINGLE GROUND | RATION: MILITARY POWER SINGLE ENGINE GROUND RUNUP (S' | . 6 dd | .7) RESSED) | | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | P PRESS HUMID | = 29. 0 08 | 59 F 92 IN H 70 % | 91 | AIRCRAF OPERATI PROFILE 24 NOV PAGE E | 0 | CODE CODE RS 10N | 633 60104 A |
| DISTANCE (FEET) | | 10 | 20 | 88 | 3 | 50 | 99 | 9,2 | ANGLE 80 | E (0EGREE | REES) | 110 | 120 | 130 | 148 | 150 | 160 | 170 | 180 |
| 200 250 315 | 109.1 107.0 104.8 | 107.4 165.2 1103.0 | 107.6 105.4 103.1 | 105.0 103.8 101.6 | 105. 103. 101. | | 105.4 103.3 101.0 | 105.3 103.1 100.9 | | 106.3 164.2 102.0 | 105.8 103.7 101.5 | 103.6 101.5 | 102.3 100.1 | 102.5 106.4 98.1 | 102.5 100.4 98.1 | 101.5 99.3 97.1 | 101.6 99.4 97.2 | 161.6 : 99.4 97.2 | 101.6 99.4 97.2 |
| 200 | 102.6 | 100.7 | 100.9 | 96 | 98,7 | 66 66 | 98.8 | 98.6 | m on | 99.7 | 99.3 97.0 | 97.0 | | | 95.8 93.5 | 94.9 | 95.0 | 95.0 | 95.0 |
| 8 8 8 | 900 | 95.9 | 980 | 46 | 93. | | 93.9 | 93.8 | + 00 | 95.1 92.6 | 94.6 92.2 | 92.1 89.5 | | | 91.0 88.4 | 90.2 | 90•1 87•4 | 90°1 87°4 | 90.1 |
| 1000 | 93.0 | | 90.6 | 6 6 6 6 6 | | | | 88.5 | 87.1 | 90.0 | 89.6 9.6 9.0 | 85.8 63.9 | 82.5 | 85.7 | 62.6 | 85.1 | 61.9 | 81.9 | 4.0 |
| 2000 | 86.4 | | | . 6. . 6. | 7 9 6 | | | 79.4 76.1 | 77.8 | 81.3 | 84.0 77.2 | 73.4 | 7.00 | 76.4 | | 76.5 73.1 | 75.8 | 75.8 | 75.6 |
| 3159 4000 5900 | 76.4 71.9 67.0 | 66.9 | 73.4 | 2 3 3 | 71.3 66.7 61.9 | 72.4 67.9 63.0 | 71.7 67.1 62.3 | 72.1 67.7 62.8 | 60% | 74.00 6.00 6.00 6.00 6.00 | 73.1 68.7 63.8 | 0 0 0 0 0 0 0 0 0 0 0 0 | 69. 54. 59.9 | 66. 64. 64. 64. | 68.6 53.9 | 69.1 64.7 59.7 | 66 66 66 66 66 66 66 66 66 66 66 66 66 | 9 9 9 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9 | 68. 63. 98.9 |
| 8 0 0 | 57.6 | | , w | , m | 200 | | | 53. | 50.2 | 55.3 | 24.0 | 50.2 | 50.3 | 40.0 | 0 4 0 4 | 50.5 | 40 ° 6 | 4 9 9 7 | 49.5 |
| 10000 12500 16000 | 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 4.9°4 4.3°2 36°8 | 4 00 4 M 00 4 M 00 M 00 M 00 M 00 M 00 | 44.00 42.02 36.11 | 46. 40. 34. 4 | 47. 41. 35. | 47.8 40.6 34.4 | 48.7 43.1 36.8 | 44.2 38.4 31.6 | 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 50.1 45.0 38.7 | 44.7 39.0 31.8 | 39.0 | 43.1 37.4 38.0 | 43.1 37.4 30.0 | 45.7 40.1 33.9 | ##•6 38•9 32•2 | 44.6 38.9 32.2 | 44.6 38.9 32.2 |
| 25800 | 35.5 | | 2 4 4 5 | 7 6 7 6 | , , , | | 25.1 | 28.6 | 21.1 | 32. | 31.5 | 22.7 | 23.7 | 20.6 | 20.6 | 25.9 | 23.1 | 23.1 | 23.1 |

| TABLES | A- WE 1 G | A-WEIGHTED OVERALL | VERALL | S | UND LEVEL | (D8A) | | | | | | | | | | OMEG | OMEGA 8.2 | 2 | |
|---|-------------------------|--------------------|--------|---------------|--|-----------------------|--|--------------------------|-------------|-----------|---|----------------|------------------------|------|------|------|---|------------------------|-------------------|
| | AS A | FUNCTION OF | N OF | ANGLE A | TSIO ON | DISTANCE | FROM SO | SOURCE | | | | | | | | TEST | TEST 78-8 | -833-001 | |
| (NOISE SO | RCE/8 101 SE 1-24 | SUPPRESSOR | SOR | | OPERATIONS MILITA SINGLE GROUND | TIONS LLITARY INGLE E | ATION: MILITARY POWER SINGLE ENGINE GROUND RUNUP (9 | R (97.7) (SUPPRESSED) |) SSED) | A 0 0 0 0 | ETEOROLOGY: TEMP BAR PRES REL HUMI | PRESS HUMID | = 59 =29,92 = 70 | N X | | PAGE | ACCAFT OPERATION PROFILE VE 26 NOV 79 PAGE F4 | CODE CODE RS 10N | 833 00104 A |
| (DISTANCE (FEET) | • | 97 | 20 | 96 | 3 | 50 | 9 | 9.2 | ANGLE 80 | (DEGREES) | EES) | 110 | 120 | 130 | 140 | 150 | 160 | 178 | 180 |
| 500 | | 94.2 | 93.8 | • | 92.0 | 93.3 | 9 | N | 91.3 | 94.3 | 93.5 | 90.8 | 90.2 | 89.3 | 89.3 | 9.68 | 89.3 | 89.3 | 89.3 |
| (250 | | 92.1 | 91.7 | • | 6 % | 91.2 | | | 89.2 | 92.2 | 91.4 | 88.7 | 86.1 | 87.2 | 87.2 | 87.5 | 87.3 | 87.3 | 87.3 |
| 312 | | 93.0 | 89.6 | • | 87.8 | 89.1 | 3 | | 87.0 | 90.1 | 89, 3 | 86.5 | 86.0 | 85.1 | 85.1 | 85.5 | 85.2 | 85.2 | 85.2 |
| #0+ | | 87.8 | 87.4 | | 85.7 | 86.9 | m · | ص ا | 64.9 | 88 | 87.2 | 94.4 | 83.9 | 82.9 | 65.8 | 63.3 | 83.0 | 83.0 | 83.0 |
| 500 | 68.1 | 82.0 | 95.2 | ۳ و و و | # 6 % 4 | 84.7 | · | 84.7 | 82.6 | 85.8 | 92.0 | 82.2 | 81.7 | 80.7 | 80.7 | 81.2 | 800 | 80.8 | 80.0 |
| 929 | | *** | F * 70 | • | | 82.4 | | . | 4.00 | 900 | 9.79 | 5 ; | 3.6 | 76.5 | 49.5 | 5.07 | 78.6 | 78.6 | 9.0 |
| | 9 20 | 91. | 9 | | | 80.1 | S | - | 78.0 | 81.3 | 80.6 | 77.6 | 77.1 | 76.1 | 76.1 | 76.7 | 76.3 | 76.3 | 76.3 |
| 1000 | 61.3 | 78.6 | 78.1 | 77.3 | 76.4 | 7.77 | | 77.7 | 75.6 | 79.0 | 78.2 | 75.2 | 74.8 | 73.7 | 73.7 | 74.3 | 73.9 | 73.9 | 73.9 |
| (1250 | 78.8 | 76.1 | 75.6 | 74.8 | | 75.2 | 74.5 | 75.3 | 73.1 | 76.5 | 75.8 | 72.6 | 72,3 | 71.2 | 71.2 | 71.9 | 71.4 | 71.4 | 71.4 |
| 1600 | 76.3 | 73.5 | 72.9 | 72.2 | | 72.5 | | 72.7 | 70.4 | 74.0 | 73.3 | | 69.8 | 68.6 | 68.6 | 69.4 | 68.8 | 68.8 | 68.8 |
| 5000 | 73.8 | 70.8 | 70.5 | 69.5 | 68.5 | 69.8 | | 70.0 | 67.7 | 71.4 | 70.7 | 67.3 | 67.2 | 62.9 | 62.6 | 66.8 | 66.1 | 66.1 | 66.1 |
| (2500 | 70.8 | 67.8 | 67.2 | 9 • 9 9 | | 66.8 | | 67.1 | 2.49 | 68.4 | 67.7 | | 64•3 | 63.0 | 63.0 | 63.9 | 63.2 | 63.2 | 63.2 |
| 3150 | 67.5 | 64.5 | 63.9 | 63,4 | | 63.6 | | 63.9 | | 65.2 | 64.4 | 61. i | 61.2 | 29.1 | 59.7 | 60.7 | 59.9 | 6.65 | 59.9 |
| 0084 | 63.B | 69.9 | 60.2 | 59,9 | | 60.0 | | 60.4 | 57.8 | 61.5 | 60.7 | 57.3 | 57.7 | 56.2 | 56.2 | 57.1 | 56.3 | 56.3 | 56.3 |
| 2010 | 59.7 | 56.9 | 56.2 | 26. 0 | | 56. i | | 56.3 | | 57.4 | 56.5 | 53, 3 | 53.7 | 52.2 | 52.5 | 53.1 | 52, 3 | 52.3 | 52.3 |
| 6300 | 55.4 | 25.6 | 51.8 | 51.7 | | 51.7 | | 52.0 | 48. | 53.1 | 52.1 | 48.9 | 49.4 | 47.8 | 47.8 | 48.8 | 48.0 | 48.0 | 48.0 |
| 9009 | 51.5 | 48.5 | 47.8 | 47.7 | | 47.6 | | 48.0 | | 7.64 | 48.3 | 44.8 | 42.4 | 43.7 | 43.7 | 44.9 | 4.0 | 44.0 | 44.0 |
| J | , | | | | | | | | | | | | | | | | | | |
| 10000 | 47.4 | 44.0 | 43.3 | | | 43.1 | | 43.6 | 40.6 | 45.0 | 44.2 | 40.4 | 41.1 | 39.5 | 39.5 | 40.7 | 39.7 | 39.7 | 39.7 |
| (12500 | 45.9 | 39.1 | 38.6 | • | | 38.2 | | 38.9 | 35.6 | 40.5 | 39.7 | 35.6 | 36,3 | 34.4 | 34.4 | 36.2 | 35.0 | 35.0 | 35.0 |
| 16010 | 38.0 | 33.9 | 33.4 | | | 32.9 | | 33.7 | 30.2 | 35.5 | 34.9 | 30.4 | 31.1 | 29.5 | 29.2 | 31.2 | 29.9 | 59.9 | 29.9 |
| 20000 | 32.6 | 28.2 | 28.0 | 27.5 | 26.4 | 27.2 | 26.4 | 28.1 | 24.4 | 36.1 | 29.5 | 24.9 | 25,3 | 23.5 | 23.5 | 25.7 | 24.4 | 24.4 | 24.4 |
| 60052 | 26.7 | 22,3 | 25.2 | _: | | 21.2 | | 21.9 | 18.3 | 24.2 | 23.7 | 19.1 | 19.1 | 17.4 | 17.4 | 19.7 | 18.6 | 18.6 | 18.6 |
| . | | | | | | | | | | | | | | | | | | | |

| AF32A-24 SUPPRESSOR (OPE 47 NOISE SUPPRESSOR (AF32A-24 | 1 | 2 6 |) - | , Õ | 25.0 | FEET | | | | | | | | | | | | | OMEG | OMEGA 8.2 TEST 78-833-09 | 8.2 78-833-001 | . 10 |
|---|---------------------|------------------|-------------|-----------------|--------|------|-------|------------------------|------------|---|--------------------|-------|------|------------------------------------|-----|-----|------|--------|---------------------------------------|-----------------------------|-----------------------|--------------------------|
| 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ISE S A+7 A+3 | OURC NOI | SE SE | SUPPR | TESSOR | | 8 | ERATIO NILI Sing | | | (97.7) UPPRESSE | 6 | HETE | OROLOG TENP BAR PR REL HU | 000 | 29. | | | P P P P P P P P P P P P P P P P P P P | CRAFT RATION FILE | COO N COO VERSI | E 633 C 00104 ON A |
| | | | | i | | | 0. | PNLT | | | | A | | | | | T=AL | F | | | | |
| 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | • | | | | | • | | • | | | | | • | | • | | | | | • | |
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| 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 202 | | | • • • | | • • • | | • • • | | | • • | | • • • | | • • | | A | • • • | . 0. | • • • | |
| 25 66 67 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | | 30 | ی ب | • | • | • | • • | • | • | • | • | • | • | • | • | • | • | . AT . | • | • | • | -: |
| 110 C C C C C C C C C C C C C C C C C C | | 9 | | | •• | | • • | | • • | | • • | • • | | • • | | • • | | •× | •• | ٥ | • • | ^ ^ |
| 130 CF | ∢: | 5. | . | | • • | | • • | | • • | | •• | • • | | • • | | | | . A I | •• | a | • • | |
| 120 C C C C C C C C C C C C C C C C C C C | z o | 9 | ن ب | • | | • | • • | • | • | • | • | • • | • | • • | • | • | • | | • | O. | • | ^ î. |
| 110 (| T M | (3) [- | | | • • | | • • | | • • | | • • | • • | | • • | | | | .× | •• | ۵ | • • | ^ ^ |
| 120 ft | H | ر <u>ن</u> نه | | | • • | | • • | | • • | | | • • | | • • | | | × | | •• | ۵ | • • | |
| 140 (| z | ىن س | د د | • | • | • | • • | • | • | • | • | • • | • | • | • | • | • | × | • | • | • • | ^: |
| 110 (120 (130 (150 (| | 100 | | | • • | | • • | | . • | | | • • | | • • | | | | .× | •• | 0. | • • | ^^ |
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| | | 170 | J | | • • | | • • | | • • | | •• | • • | | • • | | | × | • • | • | | • • | ^ ~ |
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| ACLUATION AND THE STATE OF THE | GROUND BY | SUPPRESSOR | OPEZATIONS | 26-001 726 11 A OMEGA 8.2 | Page | | MING DATA ARE PROVIDED: | ANGLE AND FREQUENCY LE AND DISTANCE FROM SOURCE | SE LEVEL ERALL SOUND LEVEL | A C H C A B C C C C C C C C C C C C C C C C C | KC-135A NOISE SUPPRESSOR KC-135A NOISE SUPPRESSOR KC-135A NOISE SUPPRESSOR |
|---|-----------------------|--------------------|---------------------------------|---|---------------|---|---------------------------------------|--|---|---|---|
| KC-135A NOISE SUPPRESSOR KC-135A | NOISE PRODUCED ON THE | KC-135A NOISE SUPP | DURING GROUND RUN-UP OPERATIONS | TEST 77-72 AIRCRAFT CODE: PROFILE VERSION: COMPUTER PROGRAM DI | Power Setting | Engine Runup, 80% RPM Military Power (Dry), 96% RPM Military Power (Wet), 96% RPM | FOR EACH POWER SETTING, THE FOLLOWING | ES SI | PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED A-WEIGHTED OVERALL SOUND I TONE-CORRECTED, A-WEIGHTEL | NOISE LEVELS AS A FUNCILON OF ANGLE OSPAGE MEDICAL RESE GHI-PATTERSON AIR F | KC-135A NOISE SUPPRESSOR KC |
| KC-135A NOISE SUPPRESSOR | | | | | | | | | | ₹ ≵ ₩ & | USAF USAF KG-135A MOISE SUPPRESSOR |

| ABLES | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 250 | O PR | SSURE | LEVEL | 9 | 8) | | | | | | | | | DENTI OMEGA TEST | FICATION (8.2 77-726-00 | 2 2 26-001 | |
|--------------|--|----------------------|----------|----------|------------|------------|----------|----------|--------------|-------------|---|--------------|-------|------------|-------|------------------------|--------------------------------|------------------|-------------|
| NOISE SOURCE | | JECT : | | OPER | PERATION8 | _ | | | - ^ | | OROLOGY MP | ξ γ ε | 5% | L | | AIRCRAFT C | AFT (| CODE 7 | 26 |
| A/H32-52 | | Ì | <u> </u> | 80 | X RPH | | 9 | | • | 8 | R PRE | SS | 9,0 | H | ۰ - ۰ | PROFI | LE VE | SION | A |
| | | | - | N D | INBOARD | M M S C | INE | - | ^ ^ | ᄣᇳ | | _ | 9 0 0 | * | | 28 NO PAGE | £ 73 | | ; |
| BAND CENTER | 7 8 8 8 8 8 | | | | | | | Y Y | <u> </u> | W. | ES) | | | | | | | | |
| FREG (HZ) | • | 10 | 20 | 30 | 3 | 20 | 9 | 2 | 99 | 0 | 0 | 110 | 123 | 130 | 140 | 150 | 160 | 110 | 180 |
| 5.0 | 734 | 744 | 73< | 75< | 78< | 75< | 78 | 78 | 77 | 90 | 75 | 75 | 814 | 76 | 79 | 79 | 78< | 744 | 634 |
| 63 | 73 | 74. | 73 | 75 | 78 < | 75 | * | 73 | 75 | 90 | 77 | 7.8 | 81 | 41 | 8 | 96 | 78 | 4. | M |
| 90 | 75 | さ | 7.2 | 7.4 | 78 | 9/ | 92 | 92 | 11 | 82 | 79 | 90 | 62 | 48 | 8 | 90 | 7.8 | 73 | 'n |
| 701 | 76 < | 22 | 75 | 92 | 78 < | 11 | 22 | 244 | 75< | 90 | 92 | 77 | 83 | 82 | 83 | 4 | 92 | 72< | 63< |
| 125 | 77 | 62 | 75 | 92 | 78 | 92 | 72< | 73< | >42 | 79 | 77 | 79 | 82 | 85 | 87 | 82 | 76< | 72< | m |
| 160 | 7.4 | 15 | * | 73 | 72 | 11 | 70 | 7. | 72 | 79 | 77 | 11 | 90 | 8 | 40 | 90 | 77 | 7.7 | m |
| 200 | 72 | 23 | 75 | 7.1 | 69 | 7. | 7. | 7.7 | 73 | 7.8 | 75 | 22 | 4 | 80 | 80 | 4 | 15 | 7.4 | 'n |
| 250 | 73 | 7.4 | 72 | 7.7 | 75 | 72 | 71 | 72 | 7.4 | 92 | 5 | 78 | 82 | 48 | 81 | 80 | 16 | 92 | 63< |
| 315 | 22 | 9 | 2 | 7 | 7 | 2 | 69 | Į. | 73 | 22 | 22 | 4 | Ø. | 87 | 8 | 62 | 77 | 4 | 63 |
| 9 | 22 | * | * | 73 | 0 | 6 | 69 | 2 | 72 | 92 | 72 | 77 | 82 | 8 | 91 | 2 | 77 | 7. | † 9 |
| 5.6 | 15 | 22 | 22 | 73 | 69 | 20 | 68 | 20 | 1 2 | 92 | 78 | 75 | 82 | 82 | 81 | 11 | 74 | 69 | 65 |
| 630 | 78 | 11 | | 92 | Z | 73 | 20 | 11 | 92 | 7.8 | 79 | 78 | 81 | 85 | 79 | 92 | 92 | 69 | 65 |
| 800 | 7.7 | 11 | 90 | 7.8 | 11 | 75 | 72 | 72 | 1 6 | 78 | 22 | 78 | 81 | 84 | 82 | 92 | 75 | 69 | 65 |
| 1000 | 11 | 77 | | 9.2 | 75 | 78 | 73 | 72 | 1,2 | 92 | 9/ | 92 | 6.0 | 81 | 78 | 22 | 72 | 29 | 62 |
| 1250 | 19 | 19 | | 81 | 73 | 18 | 73 | 73 | 73 | 74 | 92 | 7. | 19 | 90 | 11 | 12 | 72 | 29 | 63 |
| 1600 | 96 | 87 | 60 | 8 | 8 | 96 | 62 | 92 | 8 | 78 | 9 / | 7 | 2 | 90 | 48 | 2 | 9. | 9 | 9 |
| 8002 | 5 1 | 25 | 16 | 96 | 10 c | 32 | & 5.5 | ب و و | 50 (50 (| # (50 (| 00 10 10 10 10 10 10 10 10 10 10 10 10 1 | 77 | 9 2 | 3 (B | M (| t | 20 | 72 | 2 |
| 2002 | 9 (0 (| 20 | | # (| D (| n o | Σ: | c: | 2 | c i | 2 | 2 | 0 | 2 | 7.7 | 21 | 2/ | 9 | \$ (|
| 3616 | 20 | 100 | D (| | ۲: | 90 | 2 | 2 (| 08 | 9 ; | 2.2 | 27 | 6.2 | 8 / | 22 | 2 | 0. | 9 (0 | 62 |
| 3 | יים פ | ב ב | | 2 | ۵ ک | <u>ئ</u> | 5 | | 26 | 9 | \$ | 2 | ÷ | 81 | 5 | 2 | 7.5 | 60 | 7 |
| 2000 | M 0 | 81 | 5 | 8 | 2 | 87 | 85 | 9 | 8 | 92 | 9/ | Ž | 8 | ~ | 11 | 75 | 69 | 63 | 63 |
| 6300 | 83 | | 87 | 82 | 8 | 96 | 43 | 7.8 | 90 | 8 | 82 | 8 | 69 | 83 | 87 | 81 | 2.2 | 9 | 29 |
| 9000 | 91 | 78 | | 60 60 | 72 | 83 | 78 | 2 | 92 | 75 | 4 | 7 | 11 | 92 | 7 | 69 | 9 | 53 | 20 |
| 10000 | 78 | 22 | 81 | 78 | 77 | 90 | 73 | 70 | 72 | 69 | 2 | 29 | 73 | 72 | 72 | 29 | 63 | 21 | 22 |
| OVERALL | 96 | 96 | 100 | 66 | 93 | 66 | 76 | 26 | 95 | 93 | 92 | 16 | 96 | 4 | 95 | 85 | 96 | 8 | 79 |
| | +++++++++ | | | 1 | | | | | | | | | | | | | | | |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| | 726 01019 A | 160 | 97.0 94.6 92.2 89.6 87.0 84.1 | 77.8 74.6 71.2 63.6 63.6 53.0 46.9 36.8 | 20.1 10.2 |
|--------------------------------|---|--------------------|---|--|---|
| FICATION: 8.2 77-726-001 | CODE CODE RS ION | 170 | 00000000000000000000000000000000000000 | 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 30.6 |
| - | ARCRAFT OPERATION PROFILE VE 26 NOV 79 PAGE E1 | 160 | 1111 000 000 000 000 000 000 000 000 00 | | 333 333 333 333 333 333 333 333 333 33 |
|) IDENTI) ONEGA) TEST | AIRCRAFI OPERATI PROFILE 26 NOV | 150 | 0000 0000 0000 0000 0000 0000 0000 0000 | 4 | 100 100 100 100 100 100 100 100 100 100 |
| | _ | 140 | 1111.6 1100.3 1100.8 1104.1 1101.3 99.3 | 50000000000000000000000000000000000000 | 2000 2000 2000 2000 2000 2000 2000 200 |
| | N X | 130 | 1113.5 1103.5 1105.6 1105.9 1100.1 1000.1 | 10000000000000000000000000000000000000 | 49.6 43.6 30.5 |
| | = 59 =29.92 = 70 | 12.0 | 1113.7 1111.3.7 1108.7 1106.0 1103.2 1103.1 1608.1 | 99999999999999999999999999999999999999 | 15000 1500 1500 1500 1500 1500 1500 150 |
| | SS 10 10 | 110 | 107.6 105.4 105.6 105.6 105.6 105.9 105.0 105.0 105.0 105.0 | 666778667766476667766667766667766666766666666 | 46.9 34.2 27.0 14.5 |
| | EOROL TEMP BAR BAR REL TA N | 100 100 | 1111.2 106.8 106.8 103.9 101.2 98.4 95.4 | + 5 6 6 7 4 6 6 6 6 6 6 7 4 6 6 6 6 6 6 7 6 6 7 6 7 | 42.2 35.7 27.6 16.1 |
| |) MET | OEGREES | 44444444444444444444444444444444444444 | \$\text{\$\pi\$ \text{\$\pi\$ \end{\$\pi\$ \text{\$\pi\$ \end{\$\pi\$ \end{\$\pi\$ \text{\$\pi}\$ \$\pi\$ \end{\$\ | 4004 4004 4004 4004 |
| | RUNUP | ANGLE 80 | 115.8 1113.5 1111.0 108.4 105.7 102.9 | 00000000000000000000000000000000000000 | 41.0 33.0 22.8 10.5 |
| DB) Source | | 7.0 | 1113.2 100.6 1005.6 1003.1 100.2 100.2 | 50000000000000000000000000000000000000 | 34. 23.6 13.4 |
| N N | ATION: BEX RPM INBOARD ENGINE SUPPRESSED GROUND | 69 | 11114 11144 11074 | 60000000000000000000000000000000000000 | 37.1 26.2 9.9 |
| LEVE | ATIONS 65% RPH INBOARD SUPPRES | 50 | 111199 111199 111199 111199 11199 11199 11199 11199 11199 11199 | 00000000000000000000000000000000000000 | 25.6 5.0 5.0 5.0 5.0 |
| | OPERATION 61% RI INBOAR SUPPRE | 3 | 11011 11001 1000 1000 1000 1000 1000 1 | ************************************** | 39.5 27.6 12.2 |
| ≥ ⊔ [| ≅ | ä | 1119.2 1115.0 1113.0 1111.2 100.0 100.2 | | 66.2 37.6 26.1 8.1 |
| , P | o. | 26 J | 1119 1119 1119 1119 1109 1009 1009 1009 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 47. 87. 15. 15. 16. 16. |
| NE-CORRECTED A FUNCTION | BJECT I | 10 | 115.1 112.7 110.3 1107.9 1105.5 | 00000000000000000000000000000000000000 | 45.0 36.1 26.1 |
| TONE-C | URCE/SL 35A NO] 2-52 | - | 114.6 112.2 109.6 107.2 1104.5 98.6 | 00000000000000000000000000000000000000 | 43.9 36.1 27.0 12.8 |
| TABLES | NOISE SOURCE/SUBJECT & KG-135A NOISE SUPA/NOISE SUPA/N32-52 | (DISTANCE (FEET) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |

| | AS A FUNCTION | 8 | ANGLE AI | AND DISTANCE | | FROM SC | SOURCE | | | | | | | | OMEGA TEST | OMEGA 6.2 TEST 77-726-00 RUN 81 | 6.2 77-726-001 | |
|-------|---|-------|--------------|--|---|-------------------|-----------------------------|--------------|--------------|---|--------------|------------------------|-----------------------|--------------|---|---|-------------------------|---------------------|
| ¥ 5 | SOURCE/SUBJECT (-135A NOISE SUF H32-52 | | 8 | OPERATIONS 80% RP INBOAR SUPPRE | RATIONS 80% RPH INBOARD ENG SUPPRESSED | ENGINE Sed gro | Q S | RUNUP | # 6 | METEOROLOGY TEMP BAR PRE: REL HUM DELTA N = | PRESS HUMIO | = 59 =29.92 = 70 | 2 F 2 IN HG 2 X | 19 | 9 8 9 9 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 | AIRCRAFT OPERATION PROFILE VE 26 NOV 79 PAGE F1 | CODE CODE RS I ON | 726 81819 - A |
| | 10 | 50 | 8 | 3 | 50 | 9 | 20 | ANGLE | E (DEG | (DEGREES) | 11 | 128 | 130 | 140 | 150 | 168 | 17.0 | 1 2 2 |
| 96.3 | | 102.6 | 102. 108. | | 102.5 | 96.9 | 95.0 | 97.6 | 93.7 | 93.9 | 90.5 | 4.96 | 96.3 | 94.4 | 91.7 | 86.9 | 82.2 | 80.1 |
| 9 0 | | 97.9 | 97. | | 97.9 | 92.1 | 90.2 | 92.6 | 89.1 | 69.2 | | 91.6 | 91.7 | 89.7 | 87.2 | 9.6 | 77.6 | 75.5 |
| 88.7 | | 92.8 | 92.8 | | 92.9 | 86.9 | 6.0 | 85.7 | 94.2 | 0 fo 3 | 80.0 | 96.4 | 96.6 | 84.7 | 82.4 | 79.9 | 73.2 | 70.6 |
| 4 | 9 | 97.2 | 97. | 177 | 87.4 | 81.1 | | 82.1 | 76.8 | 79.0 | 75.6 | 91.0 | 91.7 | 7.62 | 77.4 | 75.8 | 60.3 | 65.4 |
| 80.5 | | | • • | 77.4 | 84.4 81.3 | 77.9 | 75.9 | 79.1 | 75.0 | 76.2 | 72.9 | 76.2 | 79.2 | 76.7 | 74.8 | 72.4 | 65.7 | 62.6 59.7 |
| 74.4 | 75.9 | £ | 7 | 71.3 68.0 | 78.0 | 70.9 67.1 | 68. 9 65.0 | 72.5 68.9 | 76.0 | 78.3 67.2 | 67.3 \$.4 | 72.3 69.3 | 73.6 | 71.1 68.2 | 6 9.2 66.2 | 66.9 63.9 | 61.2 57.3 | 56.8 53.7 |
| 9 . 8 | | | 6 | 64. 60. 4 | 70.7 | 63.1 58.8 | 61.0 56.8 | 65.1 61.2 | 63.4 59.8 | 63. 8 60. 3 | 61.4 58.1 | 66.1 62.6 | 68.1 64.8 | 65.0 61.7 | 62.9 59.3 | 66.7 57.2 | 54.1 58.6 | 56.9 46.9 |
| 5.4 | | | 6 10 | 56.1 51.2 | 62 . 3 57.3 | 54°4 49°6 | 52.4 47.8 | 56.9 52.3 | 55.9 | 56.4 52.0 | 54.5 50.5 | 56.9 | 61.1 57.0 | 56.0 | 55.3 | 53°3 | 46.6 42.6 | 43.8 38.8 |
| 50.1 | | 52.6 | | 4 2° 0 | 51.8 45.8 | 39.0 | 62.7 37.7 | 47.2 | 46.9 | 47.3 | 46.1 42.0 | 56.1 46.0 | 52.6 48.7 | 49.4 | 46.2 | 39.8 | 38.1 | 34.2 |
| 39.3 | 39.8 | 41. | | 34.0 | 39.2 | 33.3 | 32.5 | 36.8 | 37.7 | 38.1 | 37.6 | 41.5 36.7 | 39.9 | 48.9 | 36.9 32.8 | 35.2 | 29.6 | 25.3 |
| 27.5 | 27.3 | | 27.3 | 21.7 | 25.4 | 21.4 | 21.6 | 25.7 | 27.4 | 27.9 | 27.4 | 31.6 26.8 | 34.9 | 30.9 | 26.9 | 25.2 | 19.9 | 15.1 9.4 |
| 4 | 44.2 | , | _ | | • | • | | | . 1 | | 1 | | | | | | | ~ |

| NOISE SO | | | N 0 | W | AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | | TEST | 7-77 | 77-726-001 | |
|--------------------|---|-----------|---------------------------------------|----------|--------------|--------------------------------------|----------------------------|--------|-------|------|---------|-------|---------------------------------------|-----------------------|-------|--|-------|-----------------------|------------------|
| A/#3 | E SOURCE/SUBJECT: KC-135A NOISE SUPPRESSOR A/M32-52 | BJECT SUP | PRESSO | 4 | OPERA A A | RATION: 60% RPH INBOARD ENGINE | 70 10 20 20 | | | | 16 . | S S S | H H H H H H H H H H H H H H H H H H H | 9 F 2 IN HG 0 X | | A CO | 2512 | CODE CODE RSION | 726 0101 A |
| DISTANCE (FEET) | • | 10 | 20 | 30 | 3 | 50 | 69 | | ANGLE | | - I W O | 1 9 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | | 161.8 | 104.7 | 105. | ~ | 105.5 | 99.7 | 98.0 | 101.0 | 96.6 | 96.5 | 92.2 | 98.4 | 98.2 | 96.2 | 94.1 | 91.7 | 83.9 | 82. |
| 250 | ~ | 99.6 | 102.3 | 25 | 30. | 103.2 | 97.3 | 95.6 | 98.7 | 94.3 | 246 | 89.9 | 96.0 | 95.9 | | | 89.5 | 81.7 | 79.8 |
| | 'n | 0.46 | 97.4 | 96 | 1 6 | 200 | 92.3 | 90.6 | 93.8 | • 6 | 89.5 | 85.0 | 91.0 | 93.2 | 96.0 | 87.3 | 86.9 | 77.3 | , K |
| 200 | | 92.5 | 94.8 | 96 | 8.2 | 95.8 | 89.7 | 87.9 | 91.2 | 87.0 | 96.9 | 82.5 | 88.4 | 68.7 | 86.5 | 04.9 | 82.5 | 74.9 | 72 |
| 638 | | 90.8 | 92.1 | 93 | 2.5 | 93.1 | 86.9 | 85.1 | 88.4 | ÷ | 84.4 | 6 *62 | 85.7 | 86.2 | 63.9 | 82.4 | 60.1 | 72.5 | 7 |
| @ @ | 85.6 | 87.3 | 8 8 8 | . | 0 | 000 | 83.9 | 82.1 | 92.6 | 81.7 | 81.7 | 77.3 | 63.0 | 63.6 | 61.2 | 79.9 | 77.6 | 70.0 | 67 |
| 1000 | 82.7 | 84.6 | 86.2 | 2 | 80.2 | 87.4 | 80.7 | 78.9 | 82.5 | 78.9 | | 74.6 | 80.2 | 81.0 | 78.5 | 77.3 | 75.0 | 67.5 | 9 |
| 1250 | 79.7 | 81.7 | 83.0 | į | 77.2 | 84.3 | 77.3 | . 5.5 | 79.3 | 75.9 | 76.0 | 71.8 | 77.3 | | 75.7 | 74.5 | 72.3 | 64.9 | 61 |
| 1600 | 76.6 | 78.6 | 79.7 | ; | 7.0 | 81.0 | 73.7 | 71.8 | 75.9 | 5 | 72.9 | | 74.3 | | 72.9 | 71.6 | 69.5 | 62.0 | 58 |
| 2000 | 73.3 | 75.4 | 76.1 | å | 70.7 | 77.4 | 68.8 | 68.0 | 72.3 | 6 | 69.8 | 66.1 | 71.3 | | 69.6 | 68.6 | 66.5 | 59.1 | 50 |
| 2500 | 69.8 | 71.9 | 72.4 | j | 67.1 | 73.7 | 62.3 | | 68.6 | ę | 66.5 | | 68.1 | 70.3 | 86.8 | 65.3 | 63,3 | 55.6 | 52 |
| 3150 | 99 | 68.1 | 68,5 | å, | 63. | 9.69 | 61.6 | | 9,49 | å | 65.9 | | 9.49 | 999 | 63.5 | 61.7 | 29.1 | 52.4 | 4 |
| | 61.4 | 63.4 | 9 ° | នំ « | 200 | 9.0 | 56.6 | 5.0 | 59.7 | 58.2 | 56.5 | 55.9 | 65.5 | 62.6 | 59.4 | 57.3 | 55.4 | 7.04 | |
| | 20.0 | 52.4 | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | • | 76.4 | 7.2 | 7 L | 9 4 | 9 4 | • | 0 4 | | , , | 1000 | 0 0 C | * * * * | 76.7 | | * * |
| 9000 | 45.3 | 46.3 | | 47.8 | 40.6 | 46.4 | 39.6 | 36.3 | 42.7 | 43.0 | 4 3° 3 | 42.3 | 46.4 | 49.1 | 45.7 | 42.1 | * O * | 34.3 | 30.3 |
| 4000 | 70. | 4.02 | 44.7 | ď | 4 | 20 0 | | 400 | 96 | 11 1 | 4 | 7 44 | 1 | 77 | • | | | 9 | ä |
| 12580 | | 33.6 | 35.7 | 4 | 27.8 | 32.3 | 27.4 | 27.0 | 4 6 | 30.5 | 3 2 2 | 32.7 | 36.7 | 40.7 | | | 30.0 | 24.0 | Č a |
| 16000 | 27.5 | 27.3 | 29.3 | 27.3 | 21.7 | 25.4 | 21.4 | 21.6 | 25.7 | 27.4 | 27.9 | 27.4 | 31.6 | 34. | 30.0 | 26.9 | 25.2 | 19.9 | 15.1 |
| 20000 | 21.2 | 20.9 | 22.5 | | 15.6 | 18.4 | 15.1 | 15.6 | 10.7 | 24.7 | 22.4 | 24.6 | 36.4 | 30.6 | | | + 0 + | 4 4 4 | ď |
| | | | | , | | | | | | • | • | | | | | 1 | 0.51 | | |

| | | DISTANCE | = 250 | | | | | | | | | |) ONEGA | OMEGA 8.2 Test 77-726-881 | - 62 |
|-----------------|---------------------------|------------|---|-----|-----------------------|---|---|--|------------------------------------|--------|---------------------|---------------------------------------|----------------------------|--|--------------------|
| NOISE SC KC- | SOURCE -135A +32-52 | E NOI | NOISE SOURCE/SUBJECT: KC-135A NOISE SUPPRESSOR A/H32-52 | 0 | OPERATIONS 86% RPH | | 1 1 0 0 0 0 0 0 0 0 0 | 1 METEO 1 | HETEOROLOGY I TEMP BAR PRESS | s =29. | 59 F 92 IN HG | | AIRCRAFT OPERATION PROFILE | RUN B1 AIRCRAFT CODE 726 OPERATION CODE 01019 PROFILE VERSION A | 006 006 510N |
| | | | | H | INBOARD SUPPRES | INBUARD ENGINE SUPPRESSED GROUND RUNUP | |) REL) DELTA N ==================================== | EL MUMIO | 9.0 | - i | - |) ZB N | Z8 NOV 79 PAGE J1 | i |
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| | 7 | • • | • • | • • | • • | • • | • • | | • • | • • | ⋖ | - . | • • | . | |
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| | 8 | د د | • | • | • | | | | • | • | • | • • • • • • • • • • • • • • • • • • • | • | • | |
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| < | 29 | • • | • • | • • | • • | • • | • • | | • • | • • | | ⊢ | • • | ٥ | • • |
| 2 (| | • | • | • | • | • | • | | • | • | • | • | • | í | • |
| د و | : | • • • • | • | • | • • | • | • • | • | • | • | | • | • • | • | • |
| ш | 22 | • | • | • | • | • | • | | • | • | ⋖ | | • | | • |
| - | 9 | • • | • • | • • | • • | • • | • • | | • • | • | • | • . | • (| a | • |
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| - | 7 | ، د د | • | • | • | • | • | • | • | | : - | • | • | • | • |
| w · | 100 | | •• | • • | • • | • • | • • | | • • | • | - | | · . | | • • |
| <u>ه</u> د | 118 | • • | • • | • • | • | • (| • (| | • • | • • | | • | • (| | • |
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| | 151 | • • | • | • | • | • | • | • | • | A. T | • | • | • | • | • |
| | 160 | • • | •• | • • | • • | • • | • • | | •• | . T. | | ۵ | • • | | • • |
| | 178 | •• | • • | • • | • • | • • | • • | | ۲. | • • | ۵ | | • • | | • • |
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|--|---|--------------------------|-----------|----|---------------|----------------|---------------|----------|------------|----------|------------|------------|---------|-----|------|------|----------|------|------------|----------|----------|------|------------|----|-------|---------|
| | 726 01631 A | 180 | 99 | 9 | >99 | 99 | >99 | 99 | 99 | 70 | 72 | 9 0 | 29 | 29 | 99 | 99 | 65 | 65 | 89 | 67 | 29 | 9 | 2 | 5 | 25 | 9 |
| ON: | CODE 2 | 170 | on on | 9 | S. | >69 | g, | 69 | 7 | 77 | 23 | 9 4 | 29 | 99 | 69 | 11 | Z | 99 | 6 | 99 | | | 6 0 | | | 83 |
| 1CATI 8.2 7-726 | FT C 10N C E VER 79 | 160 | 79 | 82 | 83 | 83 | 82 | 90 | 9 | 9 | 0 0 | , , | . 2 | 11 | 77 | 92 | 7.8 | 11 | 2 | 11 | 75 | 7 | 7.1 | 29 | 29 | 56 |
| DENTIFICATIONEGA 8.2 TEST 77-726- | AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE C2 | 150 | 88 | 88 | 87 | 97 | 83 | 8 | 9 | 8 | 87 | 0 d | 9 | 83 | 92 | 83 | 82 | 82 | 92 | 4 | 28 | 22 | 7. | 70 | 69 | 66 |
| | | 0 7 1 | | | | | | | | | | | . (C) | | | | | | | | | | 15 | | | 103 |
| | TIX N HG | 130 | 87 | 69 | 35 | 36 | 96 | 96 | 95 | 32 | 95 | , d | 91 | 16 | 06 | 69 | 99 | 8 | 6 | 87 | 82 | 81 | 80 | 92 | 22 | 105 |
| | 9 - 59 0 70 0 0 8 | 129 | 68 | 6 | 91 | 93 | 95 | 92 | 36 | 96 | 86 | 0 d | 91 | 69 | 88 | 96 | 96 | 96 | 8 6 | 4 | 83 | 29 | 78 | 22 | 7.4 | 105 |
| | 678 SS =2 ID = | 110 | 87 | 36 | 68 | 90 | 95 | 95 | 16 | * | 96 1 | 0 M | 26 | 93 | 35 | 16 | 96 | 96 | 89 | 87 | 34 | 81 | 81 | 22 | 7.4 | 105 |
| | TEOROLOGYS TEMP BAR PRESS REL HUMID LTA N = | ES) | 8 | 88 | 88 | 88 | 88 | 68 | 8 | 83 | 96 | 0 c | 9 6 | 88 | 98 | 94 | 9 | 48 | 60 | 9 | 80 | 7.2 | 9. | 72 | 20 | 100 |
| | i w : | DEGRE 99 | 88 | 87 | 87 | 87 | 87 | 87 | 96 | 87 | 96 | 0 4 | 9 9 | 82 | 94 | 82 | 83 | 82 | 86 | 86 | 79 | 78 | 11 | 25 | 20 | 66 |
| | | GLE (| 96 | 85 | . | 85 | 82 | 3 | 92 | 96 | 85 |) G |) () | 80 | 78 | 11 | 77 | 82 | 6 | 48 | 9. | 22 | 2 | 69 | 99 | 96 |
| | DRY) ENGINE D RUNUP | ANGL 70 8 | 87 | 83 | 82 | 9 6 | 82 | 87 | 85 | 81 | 78 | C | 22 | 72 | 72 | 20 | 2 | 73 | 82 | 81 | 72 | 7.4 | 72 | 68 | 69 | 76 |
| | NER (D | 3 | 86 | 82 | 62 | 9 | 48 | 85 | 85 | 82 | 9 6 | 0 1 | . 22 | 7.8 | 79 | 92 | 15 | 4 | 90 | 88 | 80 | 80 | 80 | 92 | 72 | 96 |
| (08) | EU POR | 53 | 85 | 86 | 85 | 96 | 82 | 8 | 85 | 82 | 90 | 7 2 | : 2 | 7.4 | 74 | 72 | 72 | 11 | 9 | 9 | 16 | 11 | 72 | 72 | 69 | 95 |
| LEVEL | OPERATIONS MILITARY 96x RPH, SUPPRESSE | 3 | 83 | | 70 | 94 | 96 | 8 | 6 | 96 | 4 6 | 7 Q | 2.2 | 92 | 74 | 72 | 73 | 92 | 82 | 83 | 22 | 92 | 7.4 | Z | 29 | 95 |
| ESSURE | OPER 96 | 30 | 86 | | † | 96 | 96 | 96 | 3 | . | 9 (| , v | 22 | 9. | 78 | 92 | 78 | 97 | 6 | 88 | 91 | 82 | 79 | 92 | 73 | 16 |
| P. P. B. | 8 | 20 | 81 | 82 | 96 | 82 | 4 | 92 | 4 0 | 4 | m d | 2 C | 2.2 | 9.2 | 78 | 92 | 7.7 | 18 | 9 | 87 | 1 | 82 | 79 | 11 | 73 | 26 |
| SOUN BAND 250 | T : PRE SS | 2 | 40 | 82 | 83 | 87 | 87 | 8 | ۲ و م | 92 | . | 7 6 | 62 | 80 | 79 | 92 | 77 | 90 | 8 | 87 | 80 | | 28 | | 72 | 26 |
| | i 00 | 9 | 68 | | 9 4 | 96 | 87 | 4 | 8 | S . | M € | 9 O | 9. | 7.8 | | 92 | | 78 | | 40 | 11 | 11 | 25 | 73 | 7.0 | 16 |
| | ISE SOURCE/SUBJECKE-135A NOISE SUPI | CENTER 1 (HZ) | | | | _ | | | - | _ | _ | | | _ | | | | | | | | _ | _ | _ | _ | וָר |
| TABLES | NOISE KC-1 A/H3 | BAND CENTER FREQ (HZ) | 50 | | 90 | 100 | 125 | 160 | 200 | 250 | 315 | | 630 | 800 | 1000 | 1250 | 1686 | 2006 | 2500 | 3150 | 0 | 5000 | 30 | 8 | 10000 | OVERALL |
| ししししむ | | | | _ | _ | _ | _ | | | | | | | J | _ | J | _ | _ | _ | _ | _ | _ | _ | _ | | |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| | (TABLES | PERCE! | PERCEIVED NOISE AS A FUNCTION OF | | EVEL (| PNDB) AND DIS | B) DISTANCE | FROM S | SOURCE | | | | | | | |) IDENTI) OMEGA) TEST | DENTIFICATIONS OMEGA 0.2 TEST 77-726-00 | TIONS 26-001 | |
|--|--|---|-------------------------------------|-------------------------|--|---|--|--|--|---|--|--|--|---|--|---|--------------------------------------|---|--|---|
| THE THE THE TABLE TO THE TABLE | NOIS | URCE/SI 35A NO: | UBJECT | PPRESS | | : œ | ITION: ILLITAR 16% RPH | Y POWE | | .) IGINE | | ETEORO TEN BAR RELTA N | PRESS HUNIC | =29. | E HX | 9 | A PROPERTY OF THE PAGE | 24 6 4 C | CODE CODE ERSION | 726 01031 - A |
| 110.6 112.6 112.5 112.1 109.0 1109.0 112.3 1106.4 112.1 111.7 116.5 115.4 116.6 112.4 111.1 110.7 110.5 110.7 110.5 110.2 110.9 110.7 110.8 110.7 110.8 110.7 110.8 110.7 110.8 110.7 110.8 110.7 110.8 110.7 110.8 110.7 110.8 110.7 110.8 110.7 110.8 110. | | • | 1.0 | | 36 | \$ | 50 | 99 | 7.0 | ANGL | • | REES) | 110 | 120 | 1 10 | 140 | 150 | 160 | 170 | 180 |
| 103-3 100-4 103-5 100-1 103-2 100-1 100-1 100-2 100-1 100-2 100-1 | 1 250 1 250 1 315 | 110.2 107.9 105.6 | | 112,5 | 112. 109. 107. | 6 6 6 6 | 109.0 | 112.3 110.0 | 106.1 183.8 101.5 | # NI 00 1 | | 111.7 109.4 107.1 | 116. 114. | 115.4 113.2 111.1 | 116.6 114.4 | 112.4 110.2 108.0 | 400 | 105.0 107.8 100.5 | 95.5 | 93.3 |
| 92.5 94.1 94.6 94.3 91.4 91.2 94.5 48.3 91.9 94.6 94.3 99.4 99.0 99.5 95.3 93.8 87.8 89.8 93.3 91.0 91.6 91.1 86.2 86.1 91.2 96.3 96.1 96.5 92.2 90.7 84.8 85.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87 | | 100.00 100.00 100.00 100.00 100.00 | | 103.1 103.1 100.5 | 162. 160. 97. | 4080 | 99.6 97.6 94.2 | 102.8 100.2 97.4 | 96.0 | o -4 t/s ∞ | | 102.3 99.8 97.1 | 107. 104. 104. | 106.5 106.5 104.1 101.7 | 107.5 105.0 102.3 | 103.3 100.7 100.7 98.1 | 200 | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 86.1 | 81.3 76.6 |
| 73.4 79.6 50.2 79.7 75.9 75.3 73.4 77.6 50.5 50.5 50.2 50.2 50.2 50.2 75.2 50.6 50.3 75.4 75.4 75.4 75.4 75.5 75.0 75.2 50.6 50.3 75.2 50.6 50.3 75.2 50.6 50.3 75.2 50.6 50.3 75.2 50.6 50.3 75.2 50.3 75.3 75.3 75.3 75.3 75.3 75.3 75.3 75 | 1250 | 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | | 90 40 40 50 50 50 50 50 50 50 50 50 50 50 50 50 | 4034 | 00 00 00 00 00 00 00 00 00 00 00 00 00 | 99999999999999999999999999999999999999 | 88. 88. 77. 77. 8. 8. | 9 | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 94.0 94.0 98.0 95.0 95.0 | 99.4 96.3 93.3 | 99.0 | 99.5 | 95.2 | 93.8 90.7 87.3 | 440 | | 75.7 72.6 69.2 65.6 |
| 43.9 45.5 43.7 43.7 42.9 40.0 42.9 36.9 45.4 51.6 54.3 59.0 58.8 58.3 53.2 50.2 41.2 37.4 39.0 37.1 37.4 56.4 32.3 55.2 28.9 38.6 46.0 49.3 54.1 54.2 53.5 48.1 44.5 34.5 50.3 31.9 29.4 29.4 29.3 23.0 27.3 19.7 32.0 39.5 43.3 48.6 49.6 47.9 42.1 38.1 27.2 20.1 22.8 18.5 18.4 19.4 10.8 15.4 10.5 22.6 32.6 36.2 42.2 42.6 41.6 35.5 30.3 15.9 9.9 7.6 7.4 9.6 7.4 9.6 13.6 13.7 7.6 21.9 28.0 33.8 35.8 35.8 35.8 34.6 26.1 19.8 4. | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 663,000 663,00 | | | \$ 5 6 6 9 5 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 | \$ 4 5 6 6 6 | 76.9 66.4 53.4 75.0 75.0 75.0 | 79.9 69.9 57.2 77.2 | 73.7 64.9 63.5 57.3 50.2 43.0 | 77.6 73.6 67.8 61.9 55.7 | 366.9 566.9 566.9 566.9 | 81.97.65 73.8 73.8 68.4 59.4 | 86.3 82.1 77.7 73.1 68.1 | 86.2 81.9 77.1 72.2 63.4 | 66.2 77.1 72.2 67.2 62.8 | 61.2 72.3 67.3 62.1 57.9 | 79.7 75.2 78.1 59.6 59.6 | 6666 6666 674 674 674 674 | 50000000000000000000000000000000000000 | 4 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| | 172800 (172800 (172800 (200000 (200000 | 4 W W W W W W W W W W W W W W W W W W W | | | 43. 23. 18. | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 400 M M M M M M M M M M M M M M M M M M | 42.9 35.2 27.3 15.4 3.6 | 36.9 28.9 19.7 10.5 | 45.4 38.6 32.0 22.6 7.6 | 51 466.0 339.0 22.0 1.0 0 | 2000 2000 2000 2000 2000 2000 | 0.44 0.45 0.45 0.45 0.45 0.45 0.45 0.45 | 845 A B B B B B B B B B B B B B B B B B B | 55 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 53.5 4.8.2 3.5.4 2.5.4 2.5.4 1.0.5 1 | | 246 246 45 45 45 45 | 28.2 17.1 5.0 | 28.2 19.2 7.6 |

| | AS A F | A FUNCTION OF | PO NO | ä | | DISTANCE | FROM | SOURCE | | | | | | | | TEST -) RUN | | 6-081 | |
|--|------------------------------|-------------------|---------------------------------------|--------|-------|---|---|----------------------------------|--|-------|--|-------|---------------|---|-------|---|--|--|---------------------|
| NOISE SOURCE/SUBJECT & KC-135A NOISE SUPPRESSOR A/M32-52 | JURCE/SI 358 NO] 12-52 | JBJECT ISE SUI | # PPRESS | a a | | PERATION: MILITARY 96% RPH9 Suppress | ATION: MILITARY POWER (D/ 96% RPM, INBOARD Suppressed Ground | ER (DRY) JARD ENG ROUND RU | (DRY)) ENGINE ID RUNUP | | METEOROLO TEMP Bar (Rel (Delta n : | PRES. | # 29. 0 08 | 59 F 70 X H | 9 |) AIRCRAI) OPERAT]) PROFILE) 28 NOV) PAGE E | AIRCRAFT (OPERATION (PROFILE VEI 28 NOV 79 PAGE E2 | 8000 8000 8010 8010 8010 8010 | 726 01031 A |
| DISTANCE (FEET) | • | 97 | 50 | 90 | 3 | 50 | 60 | 2 | ANGLE 80 | | (DEGREES) 90 100 | 110 | | 130 | 140 | 150 | | 170 | 168 |
| 288 | | | 114.6 | 113,6 | 111.8 | 110.9 | 114.1 | 107.8 | 110.9 | 112.1 | 111.7 | 116.5 | 115.4 | 116.6 | 112.4 | 11101 | 105.0 | 95.5 | 93. |
| 250 | | | 112.3 | 1110 | 108.8 | 108.6 | 111 | 105.5 | ~ | 109.8 | 109 | 114.3 | ω. | 114.4 | α. | a | 102.6 | 93.2 | 91. |
| 325 | | | 110.0 | 2 = | 100.5 | 105.9 | 109. | 163.2 | | 107.5 | | 112,1 | | 112.2 | 105.7 | | 28.1 | 90.9 | 9 4 |
| 200 | | | 105.1 | 104 | 101.6 | 101.5 | | 98.4 | | 102.7 | 102. | 107.3 | | 107.5 | . 10 | | 92.6 | 86.1 | 8 |
| 630 | | 7 | | 101. | 99.8 | 9.96 | 102. | 95.7 | | 100.2 | 99. | 104.8 | - | 105.0 | | м | 93.0 | 83.5 | 91. |
| 860 | | | | 98 | 96.3 | 96.1 | | 92.9 | | 97.5 | | 102.2 | | 102.3 | _ | ω. | 96.3 | 80.7 | 7.0 |
| 1000 | 94.0 | 95.8 | 96 | Š | M | 93.1 | 96.3 | ŋ •06 | 93.4 | 94.6 | 94.3 | 966 | 99.0 | 99.5 | 95.3 | 93.8 | 87.4 | 77.9 | 75 |
| 1250 | 91.1 | 95.6 | 93 | ่ก่ | å | 89.9 | 93.1 | | 90.5 | 91.5 | 91.2 | 96.3 | 96.1 | 96.5 | 92.2 | 200 | 84.2 | 74.8 | 72 |
| 1680 | 87.7 | 89.2 | 90. | • | ŝ | 86.4 | 89.6 | 83.4 | 86.9 | 88.2 | 86.1 | 93, 3 | 93.2 | 93.3 | 88.8 | 67.3 | 80.9 | 71.4 | 69 |
| 2000 | 84.0 | 85.5 | 86. | ŝ | 'n | 82.7 | 85.9 | 79.6 | 83,2 | 84.5 | 85.0 | 90.1 | 90.1 | 90.1 | 85.2 | 83.7 | 77.2 | 67.7 | 65 |
| 2500 | 79.8 | 81.3 | 82. | 81. | 78.9 | 78.5 | 81.7 | 75.4 | 79,1 | 80.5 | 81.5 | 86.3 | 86.2 | 86.2 | 81.2 | 79.7 | 73.1 | 63.8 | 3 |
| 3150 | 75.2 | 76.7 | | 9. | ŝ | 73.8 | 77.0 | 79.7 | 7.5 | 76.1 | 77.6 | 82.1 | 81.9 | 61.9 | 76.9 | 75.2 | 68.7 | 59.5 | 20 |
| 4000 | 69.5 | 71.0 | 71: | | 68,5 | 67.9 | 71.3 | 6.49 | 699 | 71.2 | 73,3 | 77.7 | 77.1 | 77.1 | 72.3 | 70.1 | 63.9 | 54.7 | 21. |
| 200 | 999 | | | ÷, | 62.1 | 61.5 | 65.0 | 20.4 | 62° | 90 | * F | 73.1 | 72.2 | 75.2 | 67.5 | • | 200 | 2.64 | ģ |
| | 49.4 | 51.7 | ֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓ | 2000 | > C | 7407 | 50.4 | 7 M | 5.00 5.40 5.40 5.40 5.40 5.40 5.40 5.40 | 5.60 | 5 0 0 0 0 0 0 0 0 | 63.7 | 7.0 | 6 C C C C C C C C C C C C C C C C C C C | 57.9 | 55.4 | 100 d | 4C.5 | |
|) | | | } | ; | | | | • | | | | | | | | | : | | |
| 10900 | 43.9 | 45.5 | | 430 | 42.9 | 40.0 | 45.9 | 36.9 | 45.4 | 51.6 | | 59.0 | 58.8 | 58.3 | 53.2 | 50.5 | 41.5 | 28.2 | 28.2 |
| 12500 | 37.4 | 39.0 | | 37. | 36.4 | 32,3 | 35.2 | 28.9 | 38.6 | 46.0 | | 54.1 | 54.5 | 53.5 | 48.1 | 44.5 | 34.9 | 17.1 | 5 |
| 16000 | 30,3 | 31.9 | | 29 | | 23.0 | 27.3 | 19.7 | 32,0 | 39.5 | | 46.6 | 49.0 | 47.9 | 42.1 | 38.1 | 27.3 | 9 | |
| 20000 | 20.1 | 22.8 | 18.5 | | 19.4 | 10.8 | 15.4 | 10.5 | 22.6 | 32.6 | 36.2 | 42.2 | 42.6 | 41.6 | 35.5 | 30.3 | 15.9 | | |
| 75050 | 9 | | | | | | | | | | | | | | | | | | |

| NOISE SOUR KC-135 A/H32- | | FUNCTION | P | ANGLE AN | AND DISTANCE | | FROM S | SOURCE | | | | | | | | OMEGA TEST | DEGA 6.2 TEST 77-726-00 | 6.2 77-726-001 | |
|--------------------------------|-------------------------|---|---|----------|--|--|--------------|---|-------------|------|--|-----------|--------------------------------|--------------------------|---------------------------------------|---|---|-------------------|-----------------------|
| | RCE/SU 54 NOI -52 | SOURCE/SUBJECT: -135A NOISE SUP! H32-52 | E SOURCE/SUBJECT: KC-135A NOISE SUPPRESSOR A/M32-52 | ~ | OPERATION: MILITA 96x RI SUPPRI | MILITARY PO 96x RPM, IN SUPPRESSED | POWE INBO | ON: ITARY POWER (DRY) RPH, INBOARD ENGINE PRESSED GROUND RUNUP | GINE | 2 0 | METEOROLOGY TEMP BAR PRE: REL HUM | I S S G G | # 59 9 # 7 # 7 # 7 # 7 # 10 DB | 59 F 92 IN HG 70 % | • • • • • • • • • • • • • • • • • • • | AIRCRAF OPERATI PROFILE 28 NOV | RUN 62 AIRCRAFT CODE OPERATION CODE POFILE VERSION 28 NOW 79 PAGE F2 | CODE : | 726 01 0 31 |
| (DISTANCE (FEET) | " | 97 | 10 20 3 | 30 | 3 | 20 | 99 | 20 | ANGLE 80 | 2.5 | SEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 190 |
| 200 | 94.3 | 96.4 | 97.2 | | 93,2 | 93.1 | 97.2 | 90.2 | 93.9 | 97.3 | • | ĸ | _ | 102.6 | 97.5 | 96.2 | 90.2 | 81.8 | 79 |
| 250 | 92.1 | 94.1 | 6.46 | 94.6 | - | 90.9 | 95.0 | 87.9 | 91.7 | 95.1 | | 91.4 | 99.8 | 100.5 | 4.56 | 94.1 | 68.1 | 79.6 | 77.3 |
| 315 | 89.8 | 91.9 | 95.6 | | å | 88.6 | 92.7 | 85.7 | 89.5 | 92.9 | 94.0 | 99.2 | _ | 98•3 | 93.2 | 91.9 | 85.8 | 77.5 | 75 |
| 904 | 87.5 | 89.5 | 90.2 | | | 86.2 | 90.3 | 83,3 | 87.2 | 90.7 | 91.8 | 97.0 | | 96.1 | 91.0 | 89.7 | 83.6 | 75.2 | 72. |
| 200 | 85.1 | 87.1 | 87.7 | | 84.0 | 83.8 | 87.8 | 80.9 | 8.4.8 | 88.4 | 89.6 | 94.8 | _ | 93.9 | 88.8 | 87.4 | 61.3 | 73.8 | 5 |
| 630 | 82.6 | 84.5 | 85.2 | j | 81.5 | 81.2 | 85.3 | 78.3 | 82.4 | 86.0 | 87.3 | 95.6 | 7 | 91.6 | 86.5 | 85.0 | 78.9 | 70.6 | 68.3 |
| 000 | 80.6 | 81.9 | 82.5 | - | | 78.5 | 85.5 | 75.7 | 79.8 | 83.5 | 85.0 | 90°5 | <u>ה</u> | 89.2 | 84.1 | 82.6 | 76.4 | 68.2 | 62.9 |
| 1000 | 77.2 | 79.1 | 79.6 | _ | 76.2 | 75.7 | 79.7 | 72.9 | 77.2 | 61.0 | 82.6 | 87.8 | 86.5 | 86.8 | 81.6 | 80.1 | 73.9 | 65.7 | 63.4 |
| 1250 | 74.3 | 76.1 | 76.6 | 76.2 | | 72.7 | 76.6 | 69.6 | 74.3 | 78.4 | 80.1 | 85, 3 | | 84.2 | 79.0 | 77.4 | 71.2 | 63.0 | 60.8 |
| 1600 | 71.2 | 73.0 | 73.3 | _ | 70.2 | 69.5 | 73.4 | 2 • 9 9 | 71.4 | 75.6 | 77.5 | 82.7 | 81.3 | 01.6 | 76.3 | 74.6 | 68.4 | 2.09 | 56.1 |
| 2000 | 68.0 | 69.1 | 69.6 | _ | 66.9 | 66.0 | 69.6 | 63.3 | 68.3 | 72.8 | 74.8 | 79.9 | 78.6 | 76.8 | 73.4 | 71.8 | 65.5 | 57.3 | 55.2 |
| 2500 | 64.4 | 66.1 | 66.1 | _ | 63,3 | 62.3 | 66.1 | 59.6 | 6 • 4 9 | 69.7 | 71.9 | 76.9 | 75.5 | 15.7 | 70.3 | 68.6 | 62,3 | 54.1 | 52. |
| 3150 | 64.6 | 62.3 | 62° D | _ | 59,4 | 58.2 | 62.0 | 55.7 | 61.3 | 66.4 | 68.8 | 73.6 | 72.0 | 72.3 | | 65.2 | 58.9 | 50.7 | 6 |
| 4000 | 56.5 | 59.1 | 57.6 | | 55.2 | 53.8 | 57.6 | 51.4 | 57.4 | 62.7 | 65.2 | 69,9 | 68.2 | 60.6 | 63.0 | 61.4 | 55.1 | 47.0 | * |
| 5000 | 51.9 | 53.6 | 52.8 | _ | 50.6 | 49.1 | 52.9 | 46.8 | 53,2 | 58.6 | | 62.9 | 63.9 | 64.4 | 58.9 | 51.5 | 50.9 | 42.8 | 40. |
| 6300 | 47.2 | 48.9 | 47.8 | _ | 45.8 | 44.1 | 47.9 | 41.9 | 48.6 | 54.2 | 56.8 | 61.5 | 59.4 | 60.0 | 54.4 | 52.7 | 46.4 | 38.3 | 36.3 |
| 9009 | 4 3° 0 | 44.6 | 43.2 | _ | 41.7 | 39.7 | 43.3 | 37.7 | 44.5 | 50.5 | | 57.4 | 55.7 | 56.0 | 58.5 | 48.7 | 45.2 | 33.9 | 32 |
| 10000 | 38.6 | 40.5 | 38.6 | _ | 37.6 | 35.3 | 38.6 | 33.3 | 40.2 | 45.9 | 48.7 | 53.0 | 51.7 | 51.8 | 46.3 | 44.3 | 37.7 | 29.1 | 28. |
| 12500 | 34.0 | 35.5 | 33.8 | 33, 9 | 33.1 | 30.7 | 33.6 | 28.7 | 35.5 | 41.2 | 44.1 | 48.2 | 47.4 | 47.1 | 41.7 | 39.6 | 32.9 | 23.9 | 23. |
| 16000 | 29.1 | 33.5 | 28.7 | _ | 28.4 | 25.9 | 28.3 | 24.0 | 30.5 | 36.1 | 39.0 | 43.1 | 42.7 | 42.1 | 36.9 | 34.5 | 27.7 | 18.4 | 18.3 |
| 20000 | 23.9 | 25.2 | 23.4 | _ | | 20.9 | 22.7 | 19.1 | 25.0 | 30.5 | 33.4 | 37.5 | 37.6 | 36.7 | 31.7 | 29.1 | 25.2 | 12.7 | 12.8 |
| 25000 | 18.6 | 19.5 | 17.9 | _ | 18.2 | 16.0 | 16.9 | 14.2 | 19,3 | 24.5 | 27.2 | 31. 4 | 32.0 | 31.0 | 26.3 | 23.3 | 16.4 | 6.7 | 9 |

| ECSUBJECT: NOISE SUPPRESSOR (HILITARY POWER (DRY) | | | |) JEST 77-726-001 | |
|---|---------------------------------------|---|----------------------------------|--|-----------------------------------|
| 96.1 98.6 99.2 98.3 95.3 95.0 99.0 91.9 95.4 91.9 95.4 91.0 93.9 95.4 91.0 93.0 93.0 99.0 91.9 95.4 91.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0 | JHER (DRY) JBOARD ENGINE GROUND RUNUP | METEOROLOGY: BAR PRESS REL HUMID DELTA N = 0 | # 59 F #29.92 IN HG # 70 % | ARCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE G2 | CODE 726 CODE 01031 RSION A |
| 96.1 98.6 99.2 98.3 95.3 95.0 99.0 91.9 95.4 97.3 93.9 95.6 96.8 697.9 93.2 95.3 95.6 96.8 697.7 93.2 95.1 91.6 93.5 94.6 93.7 90.8 96.8 697.7 93.2 95.1 91.6 93.5 94.5 97.4 91.0 92.9 95.5 91.2 92.2 91.3 88.5 88.1 92.1 85.0 86.7 91.0 92.9 86.3 98.7 89.8 88.1 92.1 85.0 86.3 86.5 86.5 86.5 87.6 81.8 97.8 87.6 86.3 86.1 87.7 87.6 81.6 81.6 77.4 81.3 81.6 81.6 77.4 77.4 81.3 81.5 81.6 77.4 77.4 77.5 77.5 77.6 77.6 81.5 77.6 81.5 77.6 81.5 77.6 77.6 77.4 77.5 77.6 77.6 77.6 77.6 77.6 77.6 77.6 | ANGLE 70 80 | (DEGREES) 90 100 110 | 128 130 140 | 150 160 | 170 180 |
| 93.5 93.5 94.6 93.7 93.0 93.1 95.1 95.1 95.1 95.2 95.2 95.5 95.5 95.5 95.5 95.5 95.5 | 91.9 95.4 | 98.2 103. | 102.5 97. | 5 96.2 90.2 | • |
| 89.3 91.2 92.2 91.3 88.5 88.1 92.1 85.0 88.7 90.7 86.9 88.3 88.4 85.7 89.6 82.6 86.3 88.4 86.1 85.7 89.6 82.6 86.3 88.4 86.3 86.2 87.2 86.3 83.6 83.4 87.9 80.0 83.5 83.8 83.6 81.0 83.5 84.5 83.6 83.6 83.6 83.6 83.6 83.8 83.8 83.8 | 87.4 91.0 | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 98.3 93. | 4 94.1 00.1 2 91.9 85.6 | 5. |
| 86.9 86.7 89.8 86.9 86.1 85.7 89.6 82.6 86.3 88.4 84.2 86.2 86.2 87.2 86.3 83.6 83.1 87.0 80.0 83.8 86.0 83.6 83.1 87.0 80.0 83.8 86.0 83.6 83.1 87.0 80.0 83.8 86.0 83.6 83.1 87.0 80.0 83.8 86.0 83.6 83.1 87.0 80.0 83.8 86.0 83.5 87.0 80.0 83.8 85.0 87.0 80.0 83.6 80.0 83.5 87.0 80.0 83.8 87.0 80.0 83.5 80.0 83.5 87.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 | 85.0 88.7 | 91.8 97. | 96.1 91. | 0 89.7 83.6 | 2 72. |
| 79. 0 80. 8 81. 6 81. 0 80. 4 84. 3 77. 4 81. 3 83. 5 73. 0 81. 6 81. 6 71. 6 73. 6 75. 6 | 82.6 86.3 | 4 89.6 94.8 1 87.3 92.6 | 93.4 93.9 88. | 8 87.4 81.3 5 A5.0 78.9 | 73.0 70.6 78.6 68.3 |
| 79.0 80.8 81.6 80.7 78.2 77.6 81.5 74.6 78.6 81.0 75.1 77.8 78.5 77.7 75.3 74.6 78.4 71.6 75.8 78.4 77.1 75.1 77.5 77.5 77.6 78.4 71.6 75.8 78.4 73.0 74.7 75.4 77.4 75.2 74.4 75.1 68.4 72.6 75.6 78.4 75.6 69.7 71.4 71.9 71.9 71.0 68.9 67.9 71.6 65.0 69.7 72.8 66.2 67.8 68.1 67.2 65.3 64.2 67.9 67.9 67.4 66.4 69.7 72.8 66.2 67.8 68.1 67.2 67.3 64.2 67.9 67.4 66.4 69.7 72.8 67.9 59.5 59.5 59.2 53.8 57.4 66.4 69.7 72.8 67.9 77.9 49.6 64.0 53.6 51.8 58.2 53.9 47.8 54.0 58.6 47.9 49.6 48.6 48.5 51.8 51.8 51.8 51.3 7 38.6 42.6 49.2 54.2 47.9 49.6 62.7 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 | 77.4 81.3 | 85.0 90. | 89.2 | 1 82.6 76.4 | 2 65. |
| 76.1 77.6 78.6 77.7 75.3 74.6 78.4 71.6 75.8 78.4 75.1 73.0 74.7 75.4 72.2 74.4 75.1 68.4 72.8 78.4 75.1 68.4 72.8 78.4 75.1 72.8 65.2 67.8 67.9 74.6 65.0 69.7 72.8 65.2 67.8 68.1 67.2 65.3 64.2 67.9 61.4 66.4 69.7 72.8 65.4 64.8 64.8 64.8 64.8 65.3 64.2 67.9 67.9 67.9 67.9 67.9 67.9 67.9 67.9 | 74.6 78.6 A1. | 82. 6 AZ. | AK. S. AK. A. A1. | A An. 1 77.9 | |
| 73.0 74.7 75.4 74.4 72.2 71.4 75.1 68.4 72.8 75.6 69.7 72.8 69.7 71.4 71.9 71.9 71.0 68.9 67.9 71.6 65.0 69.7 72.8 66.2 67.8 68.1 67.2 65.3 64.2 67.9 65.0 69.7 72.8 65.2 67.8 64.1 63.8 67.9 67.9 71.6 65.0 69.7 72.8 62.4 66.2 67.8 61.4 66.4 69.7 72.8 67.9 64.8 64.2 67.8 61.4 66.4 69.7 72.8 67.9 69.2 69.2 69.2 67.9 61.4 66.4 69.7 67.9 69.8 69.2 69.8 69.2 67.9 67.9 69.8 67.7 58.6 62.7 67.9 49.6 68.6 48.6 68.8 56.4 68.8 69.2 67.9 47.8 54.0 58.6 47.9 49.6 48.6 48.5 67.8 54.8 58.2 57.9 49.6 42.6 49.2 54.2 54.2 43.4 45.0 43.6 43.5 42.2 40.1 43.7 38.6 48.8 59.2 54.2 23.4 23.8 33.8 33.1 30.7 33.6 28.7 35.5 41.2 29.1 30.5 28.7 28.6 28.7 28.8 28.6 28.4 25.9 28.3 24.0 30.5 36.1 25.9 28.7 28.6 28.6 28.9 28.3 24.0 30.5 30.5 30.5 23.4 23.6 23.4 25.9 22.7 19.1 25.0 30.5 30.5 23.8 23.8 23.8 23.8 23.4 23.4 25.9 28.3 24.0 30.5 30.5 30.5 23.8 23.8 23.8 23.4 28.4 25.9 28.3 24.0 30.5 30.5 30.5 23.8 23.8 23.4 28.4 25.9 28.3 24.0 30.5 30.5 30.5 23.8 23.8 23.8 23.4 25.9 28.3 24.0 30.5 30.5 30.5 23.8 23.8 23.8 23.8 23.8 23.8 23.8 23.8 | 71.6 75.8 | 80.4 | 0 84.2 | 0 77.4 71.2 | 63.0 60.8 |
| 69,7 71,4 71,9 71,0 68,9 67,9 71,6 65,0 69,7 72,6 66,2 67,8 68,1 67,2 65,3 64,2 67,9 65,0 69,7 72,6 66,2 67,8 68,1 67,2 65,3 64,2 67,9 61,4 66,4 69,7 72,6 67,8 69,2 67,9 61,4 66,4 69,7 69,7 69,8 69,2 69,2 69,3 59,0 62,7 62,8 66,4 69,2 67,9 67,9 67,9 67,9 69,6 68,6 68,6 68,6 68,6 68,6 68,6 68 | 68.4 72.8 | 77.5 82. | 3 61.6 | 3 74.6 68.4 | 2 58. |
| 52.6 64.0 64.0 65.0 53.0 53.0 53.0 53.0 53.0 53.0 53.0 5 | 65.0 69.7 | 74.8 79. | 6 78.8 | 4 71.8 65.5 | |
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| 38.6 40.2 38.6 38.6 37.6 35.3 38.6 33.3 40.2 45.9 34.0 35.5 33.8 40.2 45.9 29.1 30.5 28.7 28.8 23.9 33.1 30.7 33.6 28.7 35.5 41.2 29.1 30.5 28.7 28.8 28.4 28.9 28.3 24.0 30.5 36.1 23.9 28.2 23.4 28.6 23.4 20.9 22.7 19.1 25.0 30.5 | 38.0 44.8 50. | 2 2 | 59.4 66.8 54. | 4 52°7 46°4 5 | 36.4 36.8 33.8 32.3 |
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| 34.0 35.5 33.8 33.9 33.1 30.7 33.6 28.7 35.5 41.2 29.1 30.5 28.7 28.8 28.4 25.9 28.3 24.0 30.5 35.1 23.9 25.2 23.4 23.6 23.4 20.9 22.7 19.1 25.0 30.5 | 5 33.3 40.2 | 48.7 53. | | 3 44.3 37.7 | 1 28. |
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| 40+0 13+2 1/+2 10+C 10+C 10+0 10+2 14+2 C4+2 | 9 14.2 19.3 | 27.2 | 31.0 | 3 2303 1004 | ٥ |

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| NOISE KG KG | SOURCE -135A H32-53 | SOURCE/SUBJECT: 1-135A NOISE SUP 1432-52 | E SOURCE/SUBJECT: KC-135A NOISE SUPPRESSOR A/M32-52 | OPERATIONS (MILITA (96x RP SUPPRE | ATION: MILITARY POP 96x RPM, INE | ATION: MILITARY POWER (ORY) 96x RPM, INBOARD ENGINE SUPPRESSED GROUND RUNUP | | METEOROLOGY: TEMP TEMP BAR PRESS REL HUMID | 59 F SS = 29.92 IN ID = 70 % | ! ! ! ! 9 |) KUN UZ) AIRCRAFT) POPERATION) 28 NOV 79) PAGE JZ | KUN UZ AIRCRAFT CODE 726 PPERATION CODE 01031 PROFILE VERSION A 28 NOV 79 PAGE J2 |
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|--|------------------------|---------------------------------|----------------|----|----------|-----|------------|----------|------------|------------------|------|-----|-----|------------|-----|------|------------|----------|------------|------------|-------------|--------|------|------|------------|---------|
| SOURCE SOURCE SOU | | 26 104 A | i co | 76 | 1 | 9/ | Š | 5 | 4 | 2,4 | 7 2 | 75 | 73 | 72 | 72 | 7.1 | 70 | 40 | 0 0 | 9 6 |) | 9 49 | 62 | 58 | 54 | 87 |
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| SOUNCE SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND 1/3 OCTAV | | | i o | 88 | 96 | 86 | 82 | 9 (| 3 1 | 9 4 9 4 | 9 (2 | 83 | 40 | 95 | 82 | 81 | 1 | 82 | 82 | 2 0 |) E | 75 | . 2 | 62 | 68 | 97 |
| SOUNCE SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND 1/3 OCTAV | EGA ST 7 | RCRAT SOFIL S NOV | 26 | 96 | 76 | 35 | 16 | 91 | 16 | 3 G | 91 | 91 | 92 | 96 | 88 | 87 | 87 | 87 | 87 | 9 6 | - 4 6 | £ | 1 1 | 46 | 15 | 104 |
| SOURCE/SUBAILZED SOUND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FEET SOURCE/SUBJECT: (PERATION: HETCORLOGY: HECCORLOGY: HETCORLOGY: HETCORLOGY: HETCORLOGY: HECCORLOGY: HETCORLOGY: HECCORLOGY: H | 9010 | | | 66 | 00 | 97 | 26 | 86 | 96 | | 96 | 95 | 95 | 93 | 85 | 91 | 91 | 91 | 16 | 1 2 | 1 8 | 4 | 40 | 48 | 92 | 90 |
| NORMALIZED SOUND PRESSURE LEVEL (DB) NORMALIZED SOUND PRESSURE LEVEL (DB) DISTANCE = 250 FEET | | 9 | - | | 7 | | | | | | | | | | | | | | | | | | | | | - |
| NORMALIZED SOUND PRESSURE LEVEL (DB) 1 NORMALIZED SOUND PRESSURE LEVEL (DB) 1 1 1 1 1 1 1 1 1 | | | | 66 | 86 | 100 | 66 | 102 | 101 | D 0 | 9 | 86 | 97 | 96 | 46 | 93 | 93 | 9 | 92 | 7 6 | 7 6 | × × | 40 | 8 | 7.7 | 111 |
| 1/3 OCTAVE BAND PRESSURE LEVEL (DB) 1/3 OCTAVE BAND DISTANCE = 250 FRET DISTANCE DISTANCE = 250 FRET DISTANCE DISTAN | | 0,00 | iN | 76 | 100 | 95 | 66 | 66 | 66 | ~ 6 | 100 | 101 | 101 | 26 | 26 | 92 | 3 6 | 36 | 60 G | 7 (| 7 6 | 9 | 40 | | | 111 |
| 1.3 OCTAVE BAND 1.73 OCTAVE BAND 1.73 OCTAVE BAND DISTANCE = 250 FEET (OPERATION:) HEI 3.2-52 (SURPENSED GROUND RUNUP) DEI (SUPPRESSED GROUND RUNUP) DEI (HILITARY POWER (HEI)) HEI (SUPPRESSED GROUND RUNUP) DEI (HILITARY POWER (HEI)) HEI (SUPPRESSED GROUND RUNUP) DEI (HILITARY POWER (HEI)) HEI (SUPPRESSED GROUND RUNUP) DEI (HILITARY POWER (HEI)) HEI (SUPPRESSED GROUND RUNUP) DEI (HILITARY POWER (HEI)) HEI (SUPPRESSED GROUND RUNUP) DEI (HILITARY POWER (HEI)) HEI (SUPPRESSED GROUND RUNUP) DEI (HILITARY POWER (HEI)) HEI (SUPPRESSED GROUND RUNUP) DEI (HILITARY POWER (HEI)) HEI (SUPPRESSED GROUND RUNUP) DEI (SUPPRESSED GROUND RU | | 11 11 11 10 | 110 | 26 | 96 | 95 | 96 | 4 | 8 6 | 3 4 | 100 | 100 | 66 | 98 | 66 | 66 | 96 | 98 | 97 | £ 6 | 0 1 | • | | | | • |
| 1.3 OCTAVE BAND 1.73 OCTAVE BAND 1.73 OCTAVE BAND DISTANCE = 250 FEET (OPERATION: 1.135A NOISE SUPPRESSOR (HILITARY POWER (HET)) (96% RPH, INBOARD ENGINE) (96% | | A HUE | ES 10 | 4 | 96 | 46 | † 6 | 6 | 9.0 | 7 7 | 92 | 92 | 96 | 62 | 46 | 93 | 95 | 92 | 16 | 5 6 |) « | M ≪ | 6 | 11 | 73 | 404 |
| 1.3 OCTAVE BAND 1.3 OCTAVE BAND DISTANCE = 250 FEET SOURCE/SUBJECT: (OPERATION: 1.35A NOISE SUPPRESSOR (HILITARY POWER (HET) (32-52 (HILITARY POWER (HET) (32-52 (HILITARY POWER (HET) (32-54 OLSE SUPPRESSOR (HILITARY POWER (HET) (32-55 (HILITARY POWER (HET) (32-55 (HILITARY POWER (HET) (32-56 (HILITARY POWER (HET) (32-57 (HILITARY POWER (HET) (32-56 (HILITARY POWER (HET) (32-56 (HILITARY POWER (HET) (32-57 (HILITARY POWER (HET) (32-56 (HILITARY POWER (HET) (33-65 (HILITARY POWER (HET) (34-65 (HILITARY POWER (HILITARY POWER (HILITARY POWER (HILITARY POWER (HILITARY HILITARY POWER (HILITARY HILITARY HIL | | <u> </u> | DEGR 90 | 95 | 93 | 95 | 95 | 95 | 76 | D 6 | 96 | 96 | 16 | 0 6 | 90 | 90 | 69 | 83 | 68 |) () | 0 4 0 4 | , « | 81 | 77 | 7.4 | 70+ |
| 1/3 OCTAVE BAND 1/3 OCTAVE BAND 1/3 OCTAVE BAND DISTANCE = 250 FEET (OPERATION: 135A NOISE SUPPRESSOR (96 RPH; INBOARD E (182-52) CENTER (HLITARY POWER (WE 96 B) | | ша | 7 60 1 7 50 | 26 | 95 | 90 | 06 | 96 | 26 | | 87 | 85 | 85 | 85 | 9,4 | 90 | 78 | 7.8 | 8 (| C s | 9 F | | 2.2 | 7.0 | 99 | |
| 1.3 OCTAVE BAND 1/3 OCTAVE BAND 1/4 OCTAVE BAN | | ET) ENGIN | 4 , | 86 | 88 | 68 | 3 6 | 83 | 3 6 | 9 4 | . 10 | 8 | 83 | 83 | 48 | 94 | 83 | † | † | ~ 0 | 0 7 7 | . 2 | 9 | 7.8 | 73 | 40.0 |
| 1.3 OCTAVE BAND 1.73 OCTAVE BAND 1.73 OCTAVE BAND DISTANCE = 250 FEET (OPERATION: 1.35A NOISE SUPPRESSOR (HILITARY PON (96% RPM, INB (| _ | | | 9 | 88 | 68 | 06 | 88 | 88 | ~ Q | , M | 81 | 79 | 8.0 | 90 | 80 | 79 | 80 | 1 6 | * | 9 M | 0 6 | 28 | 75 | 20 | 5 |
| 1.3 OCTAVE BAND DISTANCE = 250 FEET 1.3 OCTAVE BAND DISTANCE = 250 FEET 1.35A NOISE SUPPRESSOR (1.32-52 1.435A NOISE SUPPRESSOR (1.445 | (08) | | | 92 | 90 | 83 | 91 | 69 | 87 | ب د د د | 3 | 82 | 80 | 8.2 | 7.8 | 4 | 11 | 79 | 79 | 20 | 0 4 0 4 | 7 | 22 | 73 | 20 | 0 |
| 1.3 NORMALIZED SOUND PRES 1.73 OCTAVE BAND 1.73 OCTAVE BAND DISTANCE = 250 FEET 1.35A NOISE SUPPRESSOR (1.35-52 (| ا ليا | TION: ITARY RPH, PRESS | 3 | 68 | 80 | 06 | 06 | 88 | 87 | e S | 9 0 | 63 | 80 | 92 | 92 | 52 | 73 | 74 | 75 | e (| 77 | 72 | 17 | 20 | 29 | 9 |
| 1.3 NORMALIZED SOUND PRES 1.73 OCTAVE BAND 1.73 OCTAVE BAND DISTANCE = 250 FEET 1.35A NOISE SUPPRESSOR (1.35-52 (| | DPERA MIL 96% SUP | 30 | M | 91 | 96 | 88 | 96 | 96 | # # ED G |) M | 90 | 8 2 | 2.2 | 22 | 75 | 73 | 73 | 4 1 | : : | 707 | | 10 | 99 | 9 4 | • |
| 1.3 NORMALIZED SOUND 1.73 OCTAVE BAND DISTANCE = 250 DISTANCE = 250 DISTANCE = 250 CENTER NOISE SUPPRESSO 32-52 CENTER 0 10 CE | PRES | | 9 | | | | | | | | | | | | | | | | . | | | M | m | 6 | r. | 20 |
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| 11.35 | (| ECT : | - | | | | | <u>ത</u> | ••• | 20 « | • | 40 | €0 | €0 | • | _ | _ | _ | ~ ' | | • ≪ | | | | - | ٥ |
| * 1 45 10 Resolved National States of 1 | MALIZ OCTA TANCE | /SUBJ | | | 60 | 50 | 8 | 89 | 96 | 2) q | 80 | 80 | 82 | 19 | 5. | 77 | 77 | 77 | 76 | ., u | 0 6 | 7 5 | 7. | 70 | 67 | 6 |
| * 1 45 10 Resolved National States of 1 | NOR 1/3 DIS | OURCE 5A NO. | 17ER 12) | | | | | | | | | | | | | | | | | | | | | | | _ |
| E HA SE | | | ! O | | | 3 | 700 | 125 | 160 | 2 C | 315 | 004 | 50¢ | 630 | 800 | 1000 | 1250 | 1666 | 2000 | 2007 | | 5000 | 6300 | 3008 | 0000 | OVEDALL |
| 7 | TAB | N A | BAN | | | | | | | | | | | | | | | | | | - | | | - | 7 | C |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| TABL | PERCEIVED AS A FUNCT | | NOISE LEVE ION OF ANG | = | (PNDB) AND DISTANCE | | FROM S | SOURCE | | | | | | | |) IDENTI | OMEGA 8.2 TEST 77-726-00 | IFICATION: A 6.2 77-726-881 | |
|--|-------------------------|---------------|--------------------------|--------------|----------------------------------|--|--------------|---------|--------------|-------|--|----------------|-------------------------|----------|---------------|--|-----------------------------|-----------------------------------|---------------------|
| (NOISE SOURCE/SUBJECT (NOISE SOURCE/SUBJECT (A/M32-52 | 1 \ Z | UBJECT 1 | PRESS(| 8 | 00 87 88 80 80 80 | OPERATION: MILITARY POWER (WE 96x RPM, INBOARD E SUPPRESSED GROUND | Y POHE | | T) RUNUP | | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | = 59 = 29.92 = 70 | r HX | 9 | SA O O O O O O O O O O O O O O O O O O O | TIO TIO TICE OX 7 | CODE | 726 01049 - A |
| (OISTANCE (FEET) | | 10 20 30 | 50 | 38 | 3 | 25 | 3 | ? | ANGLE | • | (DEGREES) | 11 | 128 | 130 | 7,5 | 150 | 161 | 278 | 181 |
| 200 200 200 200 200 200 200 200 200 200 | 110.5 100.3 | 111.2 | 107.3 | | 106.2 | | | | | | | | | | | | | 103.3 | 96.2 |
| | 103.6 | 164.2 | 100.4 | | - | | 115.5 | | 4 . | | | - | | | 112.5 | | | 96.5 | 91.1 |
| 200 | 98.5 | 101.7 99.1 | 95.2 | 95.2 | | 98.7 | | 105.5 | 97.0 | 100.7 | | 111.0 | 112.2 | 1111.6 | | 0 4 6 0 0 0 0 0 0 0 0 0 | 97.6 | 91.5 | 90.0 |
| | 0 0 0 0 | 7 | 760 4 | | | | | | • | | • | 4 | | _ | | | | • | 9 |
| 1000 | 92.6 | 93.2 | 89.4 | 89.4 86.1 | 90.5 | 95.8 | 96.6 | 9; s | 92.1 16.9 | | 90.1 | | _ | | 102.8 99.8 | 97.7 | 91.8 | 85.8 | 77.3 |
| 1690 | 85.8 | | 82. 7 A. | | 6 % 6 7 9 4 | 85.9 | 2.5 1.6 | :: | 15.5 | 92.2 | ~ . | | | 3:5 | 95.6 | 91.2 | 81.6 | 79.3 | 73.9 |
| 2548 | 77.5 | | | | 75.3 | 77.6 | 7.8.1 | 97.0 | 75. | • | : | 93.0 | 92.2 | 2 | 10.4 | 86.3 | 77.6 | 71.6 | 66.4 |
| 3150 | 72.6 | 73.2 | 69.2 64.8 | 6.0 | 7 E S | 72.7 | 76.2 | 77. | | :: | | ii | 11.7 | ** | 70,7 | 50.2 | 73.3 | 67.1 | 61.9 |
| 2000 | 62.0 | | | | 58.9 | 91.6 | 7 | 7 | š | 7.1.2 | | 2 | | 77. | 74.9 | 7:0 | 63.4 | 56.9 | 51.7 |
| (630 8 (8006 | 56.4 51.8 | 52.3 | 53.8 40.3 | 52.9 47.8 | 5 5 5 5 | 55.1 | 57.3 52.3 | ?:. | | | ` • | | ;; | ;; ;; | 55.6 | 65.6 61.5 | 58.1 53.6 | 51.2 46.3 | 45.6 48.5 |
| ~ | 46, 6 | | 100 | | 4 | 1.04 | 1 | 4 5 6 6 | 1 | • | 7 7 7 | 9 | 4.54 | 4.5.6 | 7 | 67.5 | 4.6.4 | 1714 | 34.5 |
| 12500 | 4.6 | | 36. | | 30.4 | 39.4 | ; | 7:5 | į | 91.0 | į | ; | 1.10 | : | 86.5 | 51.9 | 42.6 | 6.4 | 27.9 |
| 16600 | 300 | 34.4 | 29.3 | 26.4 | 31.0 | 31.9 | 32.5 | 37.1 | 7 - | | 7:1 | ž | 3 | 53.7 | 51.1 | 46.2 | 36.0 | 26.7 | 19.7 |
| 25090 | 13.1 | 13. | 10.2 | | 10.7 | | : | 7 - 7 | 2.5 | 29.9 | j | 1 | 43.5 | ; | 37.4 | 31.3 | 16.1 | 2.3 | |
| <u> </u> | | | | | | | | | | | | | 1 | 1 | | | 1 | į | |

Mr. Ca

| TABLES | TONE- | TONE-CORRECTED, PERC AS A FUNCTION OF ANG | ٥, م | | | NOISE LEVEL DISTANCE F | ROM N | DB) SOURCE | | | | | | | |) IDENTI) OHEGA) TEST | DENTIFICATIONS OMEGA 6.2 TEST 77-726-00 | FICATION: A 6.2 77-726-081 | |
|---|---|---|--|--|--|--|--|--|--|---|--|---|--|---|--|--|---|--|--|
| SIO | E SOURCE/SUBJECT KC-135A NOISE SU A/432-52 | E SOURCE/SUBJECT: KG-135A NOISE SUPPRESSOR A/M32-52 | RES | SOR | OPER | OPERATIONS HILITARY PO 96x RPH, IN SUPPRESSED | | POWER (WET) INBOARD ENGINE | T) NGINE RUNUP | | METEOROLOGY TEMP BAR PRE REL HUM | * NH | = 59 S = 29.92 D = 70 | F H X | 92 | PACE COPERCE | RUN 03 AIRCRAFT OPERATION PROFILE VE 26 NOV 79 PAGE E3 | CODE CODE RSION | 726 81849 A |
| (DISTANCE (FEET) | | 10 | 20 | 92 | 3 | 20 | 99 | 9, | ANGLE 83 | E (0E(| (DEGREES) 90 160 | 110 | 120 | 130 | 941 | 150 | 160 | 178 | 180 |
| | 1112.0 100.0 100.0 100.0 100.0 100.0 | 1112. 1100.2 1107.9 1105.5 163.6 97.8 | 1106.8 1106.8 1106.8 104.8 109.8 109.8 109.8 | 10 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 111 101 103, 6 103, 6 103, 6 9, 6 9, 6 9, 6 | 112.1 109.9 107.6 105.2 102.7 100.0 | 111 11113.7 1109.2 1004.8 1004.8 96.6 96.6 | 1112.5 1112.5 110.2 107.8 110.3 110.6 99.8 | 109.6 107.4 165.1 100.8 97.8 97.8 | 11156 111136 111136 1106 1106 1106 1106 1106 | 11111111111111111111111111111111111111 | 124.0 1124.0 1119.5 1117.2 1116.8 1112.3 | 121.3 1119.1 1116.9 1117.6 1109.7 | 120.9 1116.7 1116.5 1111.8 1109.3 | 120.0 1117.6 1115.5 1113.2 1106.7 | 1116. 1114. 1111. 1107. 1107. 1104. 1104. | 1111 1111 1100 1000 1000 1000 1000 100 | 440 940 940 940 940 940 940 940 940 940 | 99 99 99 99 99 99 99 99 99 99 99 99 99 |
| 1990 1990 1990 1990 1990 1990 1990 1990 | 99 99 99 90 90 90 90 90 90 90 90 90 90 9 | | | | 00000 0000 0000 0000 0000 0000 0000 0000 | 00000000000000000000000000000000000000 | 00000000000000000000000000000000000000 | 00000000000000000000000000000000000000 | 00000000000000000000000000000000000000 | 90000000000000000000000000000000000000 | 1001 990 990 790 790 790 790 790 790 790 790 | 1106 1006 1006 1006 1006 1006 1006 1006 | 104 101 101 101 101 101 101 101 101 101 | 1003 903 904 904 77 77 905 905 905 905 905 905 905 905 905 905 | 1002 906 906 906 906 906 906 906 906 906 906 | 999 907 907 907 907 907 907 907 907 907 | 00000000000000000000000000000000000000 | 00000000000000000000000000000000000000 | 44214044 451444 651444 651444 651444 651444 651444 651444 651444 65144 65144 65144 65144 65144 65144 65144 65144 65144 65144 65144 6514 651 |
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| AS Source -135A H32-52 | A FUNCTION SUBJECTS NOISE SUPP | N OF ANG | LE A | 2 | DISTANCE F | FROM SC | SOURCE | | | | | | | |) TEST | TEST 77-726- | 56- BO 1 | |
|---|--------------------------------|------------|-----------------------|---|-----------------------------------|---------|-------------------------------------|---------------------------|------|----------------------------|----------------|--------------|------------|---------|--------------|--------------|----------|------|
| NOISE SOURCE/SUE KC-135A NOI: A/M32-52 A/M32-52 DISTANCE (FET) 0 | SE SUP | 0 | | | | | | | | | | | | | | | -01 | |
| A/M32-52 A/M32-52 DISTANCE (FEET) | 97 | | | OPERA | PERATIONS | | | | Ŧ | METEOROLOGY TEMP | . 06Y t | ŭ | | | AIR | RAFT | 9 6 | 7.26 |
| | • | | | χōй | HILITARY 96% RPH, SUPPRESSE | SHO | MER (MET) BOARD ENG GROUND RU | WET) ENGINE D RUNUP | 0 E | BAR F REL F ELTA N : | PRESS TUNIO | | N H C | (9 | PROFINE PAGE | 1.E | RSION | 4 |
| | 3 | 20 | 8 8 | 3 | 20 | 9 | 20 | ANGLE | -0 | DEGREES) 0 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 188 |
| | 7 | 90.8 | ë | 91.7 | 94.3 | 96.1 | 98.9 | 10 | • | • | 110.3 1 | 108.1 | | 104.6 1 | 9.001 | 6.46 | 88.1 | 63.8 |
| 250 91.9 | 92.7 | 88.6 | 88.3 | 89.6 | 92.0 | 93.9 | 96.7 | 92.4 | 7.66 | 102.6 | | | w . | 102.5 | 98.7 | 92.7 | 86.0 | 81.7 |
| | 88.1 | 84.1 | 'n | 85.4 | 87.4 | 89.2 | 92.1 | 88 | | n M | | | • 6 | 98.1 | 7000 | 86.2 | 61.6 | 77.3 |
| | 85.7 | 81.7 | 4 | 82.7 | 85.0 | 86.8 | 9.69 | 85.6 | | -4 | 101.5 | · | | 95.8 | 91.9 | 62.6 | 79.4 | 75.0 |
| 634 82.6 | 83.3 | 79.3 | | 80.3 | 85.5 | j, | 87.1 | 83.5 | | €. | 99.2 | 97.2 | | 93.5 | 89.6 | 63.5 | 77.0 | 72.7 |
| | • | • | å | • | F. | 81. b | | 01.1 | ~ | • | 90° | T | 93.2 | 91.1 | 2.78 | 91.0 | *** | 20.5 |
| | 78.8 | 74.1 | m | 75.1 | 77.2 | 78.8 | 81.8 | 78.7 | 85.8 | 89.0 | 94.4 | 95.5 | 90.8 | 99.9 | 84.7 | 78.5 | 72.0 | 67.8 |
| 4. | 75.2 | 71.3 | å, | 72,3 | 7404 | 75.9 | 78.9 | 76.1 | 83.2 | 86.5 | 91.8 | 9006 | 88.2 | 86.8 | 82.2 | 75.8 | 2.69 | 65.2 |
| 1588 71.6 | 2.27 | 60.0 | 2 . 9 9 . 9 9 . | 4.69 | 71.3 | 72.6 | 75.9 | 73.4 | 80.5 | 6.0 | 89.2 | 87.5 | 65.5 | 63. | 79.5 | 73.1 | 66.4 | 62.5 |
| 9 | 65.8 | 61.8 | ; ; | 62,0 | 64.8 64.8 | 66.1 | 69.3 | 67.5 | 76.7 | 78.3 | 8 4 | 81.8 | 79.7 | 77.5 | 73.7 | 67.1 | 50.4 | 56.7 |
| 61. | 62.1 | 58.1 | 8 | 59.1 | 61.1 | 62.4 | 65.8 | 64.2 | 71.4 | 75.1 | 80.1 | 78.5 | 76.4 | 74.1 | 70.3 | 63.7 | 56.5 | 53.3 |
| 57. | 58.5 | 54.1 | ŝ | 55.0 | 57.1 | 58.4 | 61,9 | 60, 6 | 67.8 | 71.5 | 76.5 | 74.8 | 72.7 | 70.4 | 66.6 | 60.8 | 52.6 | 49.6 |
| 50 | | 6 7 | ċ | 50.6 | 52.8 | ٠. | 57.7 | ٠ | 63.8 | 67.5 | 72.4 | 9.02 | 68.5 | 66.2 | 62.5 | 55.6 | 48.3 | 45.5 |
| | 400 | 2.64 | 8. | 9 | 9 · 0 · | 9.6 | 53.2 | 52.1 | 59.4 | 63.2 | 68.1 | 2 99 | 1.49 | 61.6 | | | 5.0 | 41. |
| | *** | * 1 * | ä | 2 *2 * | 1.61 | 45.5 | 600 | ٠ • • | • | 59.1 | 63.9 | \$ 5. | 1.00 | 57.9 | 54.1 | 2.7. | 34.9 | 37.0 |
| 10000 40.4 | 41.2 | 37.4 | | å | 39.8 | 40.8 | 46.3 | ~ | 50.8 | 54.8 | 59.4 | 58.2 | 55.9 | 53.6 | 6.64 | 42.8 | 35.8 | 32.7 |
| (12500 35.9 | 36.7 | 33.1 | ņ | j | 35.2 | 36.1 | 39.4 | ~ | 46.0 | 50.1 | 54.5 | 53.8 | 51.3 | 49.1 | 45.3 | 38.1 | 31.4 | 28.0 |
| | 31.9 | 20.5 | ÷ | ŝ | 30.3 | 31.0 | 34.1 | • | 40.7 | 44.0 | 49.1 | 48.9 | 46.4 | 44.1 | 40.4 | 33.1 | 56.9 | 22.9 |
| 1 20000 26-1 | 26.7 | 23.7 | 23.5 | 24.8 | 25.3 | 25.8 | 28.6 | | 35.0 | 39.2 | 43.3 | 43.6 | 41.1 | 38.8 | 35.0 | 27.5 | 25.2 | 17.5 |
| | 21.4 | 18.8 | ÷ | ŝ | 20.5 | 20.5 | 23.0 | - | 58.9 | 33.0 | 37.1 | 37.8 | 35.4 | 33,1 | 29.5 | 21.6 | 17.5 | 11.7 |

| SOR 30 30 30 30 30 30 30 30 30 30 30 30 30 | A 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 62.01 | NEWORK IOOK I | | | | METEOROLOGY TEMP BAR PRE | L0671 | i | j 1 1 | |) TEST 77- -) RUN 03) AIRCRAFT | 77-726-001 03 RAFT CODE | | |
|--|--|--|---|--|------------|------|--------------------------------|----------------|----------------|------------------|----------|--|------------------------------------|-------------|-------|
| PPRESSOR 20 30 92.2 92. 90.0 90. | 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 1110N: 1110N: 396x RPH: 50 99.6 93.6 93.1 83.8 | E I POURE I I NBOAR 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | (WET) 30 ENGI 300 RUN 70 96.9 9 | 1 1 6 | | TEOROL TENE | L 067 t | | | | AIRC | PAFT | CODE 7 | |
| 20 30 92.2 92. 90.0 90. | 3 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 11LITARY 36 X RP M. 50 50 93.4 93.4 88.6 83.4 | POTER 1 NO 1 N | ~ CMET) ~ CMENCY ~ CM | 1 1 6 | , , | BAR | | " | | | ֡֜֝֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜ | ATION | CODE | 726 |
| 28 30 92.2 92. 90.0 90. | 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 440000 | 0 1 4 4 | GLE 5.1 | ; ~ | ELTA N | PRESS HUMID | =29. = 0.08 | 92 IN HG 70 % | o | PROFILE 28 NOV PAGE G | PROFILE VE 28 NOV 79 PAGE G3 | RSION | ⋖ |
| 92.2 92. 90.0 90. | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 00000000000000000000000000000000000000 | 3 4 0 W D W | 0 F 4 H | 4 | - | ZEES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 90.0 90. | 400 | 00000000000000000000000000000000000000 | 40000 | ~ + + | | 6.1 | 104.8 | 110.6 | | 106.5 | 105.3 | 101.9 | 96.0 | 88.1 | 83.8 |
| 87.8 87. | 0 0 0 0 0 0 | 91.00 00.00 00.00 00.00 00.00 | 910 = 10 | 4 H | | ~ | • | | _ | | 03. | 99.7 | 93.6 | 86.0 | 81.7 |
| | | 20 20 20 20 30 30 20 40 30 | v = r | -1 | m. | 2.5 | 10 | 10 | • | | 101.0 | 97.5 | 91.5 | 83.8 | 79.5 |
| 65.5 85. | | \$ 0.00 0.00 0.00 0.00 | ⊃ 10 | | -4 4 | m • | м, | m e | | 100.2 | | 95.3 | 69.3 | 81.6 | 77.3 |
| 84.7 8B. | | | | ۰ - | 83.5 | 9.56 | 1 60 6 | 192.1 | 6.60 | 9.20 | 20.0 | 90°4 | 8 to 5 | 77.0 | 72.7 |
| 78.2 78. | 7.9 | 81.3 | 90 | | - | 8 3 | - | M | | 93.2 | 91.6 | 86.3 | 82.1 | 74.5 | 70.3 |
| 7.5. | | 78.6 | _ | • | ~ | 8.5 | 9 | 96.9 | 95,6 | 8.0 | | * · · · · | 79.5 | 12.0 | 67. R |
| 6 72.7 72. | 9 74.0 | 75.7 | | 76.9 7 | | 83.2 | 86.5 | 92, 3 | 90.0 | 88.2 | 86.8 | 83.2 | 76.9 | 69.2 | 65.2 |
| 5 69.8 70. | 0 71. | 72.7 | _ | σ | * | 80.5 | 83.9 | 89.7 | 87.5 | 85.5 | 84.1 | 80.6 | 74.1 | 66.4 | 65.5 |
| ₩ 66.7 67. | 0 68. | 69.5 | 60 | _ | 9 | 7.77 | 81.2 | 86.9 | 84.8 | 85.8 | 81.3 | 77.8 | 71.3 | 63.4 | 59.8 |
| 63.3 63. | | 66.1 | ٠ | m | ß | 74.7 | 78.3 | 63, 9 | 81.8 | 79.7 | 78.2 | 74.8 | 68.2 | 60.1 | 56.7 |
| 4 59.6 60° | 60 | 62.4 | _ | • | N | 71.4 | 75.1 | 80.6 | 78.5 | 76.4 | 74.8 | 71.4 | 64.8 | 56.5 | 53.3 |
| 2 55.3 55. | 56 | 58.2 | 1 0 | 6 | 9 | 67.8 | 71.5 | 76.9 | 74.8 | 72.7 | 71.0 | 67.5 | 60.8 | 52.6 | 49.6 |
| 6 50.6 51. | 1 51.6 | 53.6 | . | ~ | 40 | 63.8 | 67.5 | 72.7 | 20.6 | 68.5 | 2.99 | 63.1 | 56.5 | 48.3 | 45.5 |
| \$ \$ | ş | 48.8 | -4 | N | _ | 59.4 | 63.2 | 68,3 | 66.2 | 64.1 | | 56.5 | 51.8 | £ 3.8 | 41.1 |
| 6 41.7 42. | 4 5. | 4 - 4 4 | | 6 | m | 55.3 | 59.1 | 64.0 | 62.4 | 60.1 | 58. L | 54.3 | 47.4 | 39.9 | 37.0 |
| 37.4 37. | 38 | 39.8 | • | 46.3 4 | ~ | 50.8 | 54.8 | 59.4 | 58.2 | 55.9 | 53.6 | 6 • 6 7 | 42.8 | 35.8 | 32.7 |
| 7 33.1 33. | 34. | 35.2 | - | 4 | ~ | 46.0 | 50.1 | 54.5 | 53.8 | 51.3 | 49.1 | 45.3 | 38.1 | 31.4 | 28.0 |
| 26.5 28. | 29 | 30.3 | | -4 | 80 | 40.7 | 6.44 | 1.64 | 6.84 | 46.4 | 44. | 40.4 | 33.0 | 26.9 | 22.9 |
| 7 23.7 23. | 5 24.8 | 25.3 | • | | 29.6 | 35.0 | 39.2 | 43,3 | 43.6 | 41.1 | 38.8 | 35.0 | 27.5 | 22.2 | 17.5 |
| 16.8 18. | - | 20.2 | | | - | 28.9 | 33.0 | 37.1 | 37.8 | 35.4 | 33.1 | | 21.6 | 17.5 | 11.7 |

| | OI | DISTANCE | = 250 FE | L u | | | | | | | | |) OMEGA | OMEGA 8.2 TEST 77-726-001 | -001 |
|----------------|---|---------------------------------------|---|---|--|------------------------|---------------------------|---|--|-------------------------|-----------------------|----------|----------------------------------|--|------------------------------------|
| NOISE S KC- | E SOURCE/SUBJI KC-1358 NOISE A/M32-52 | E/SU NOI | ECT 8 SUPPRESSO | | OPERATION: MILITARY 96x RPH, SUPPRESSE | POWER (WE INBOARD E | T))) (NGINE)) RUNUP) | METEOROLOGY B TEMP BAR PRES REL HUMI | OROLOGY: TEMP BAR PRESS REL HUMIO A N = 0. | = 59 = 29.92 = 70 | 9 F 2 IN HG 0 X | | AIRCE DOPER DPROFI PAGE | US RAFT ATION ILE VI DV 79 | CODE 726 CODE 01049 ERSION A |
| | | | | 4 d d d d d d d d d d d d d d d d d d d | Papal | 1 | A=AL | | | | T=ALT | <u>-</u> | | | |
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| F-4 NOISE SUPPRESSOR USAF USAF USAF USAF | | | | | | | | | | USAF F-4 NOISE SUPPRESSOR F-7 |
|---|------------------------|---------------|---------------------------------|--|----------|---|--------------------|---|---|---|
| NOISE NOISE NOISE | | | | | | | | | > 0 | MOISE |
| | | | | | | | | д <u>н</u> | G I | 111 |
| | | | | | Page | 74-79 80-85 86-91 | DED: | M SOURCE SOURCE | ₹ | |
| SUPPRESSOR SUPPRESSOR SUPPRESSOR | 8 | | SNO | ~ | | | A ARE PROVIDED: | SLE AND FREQUENCY AND DISTANCE FROM SOURC LEVEL ALL SOUND LEVEL AT 250 FEET FROM SOURCE | | SUPPRESSOR SUPPRESSOR |
| NOISE NOISE NOISE NOISE NOISE | SROUND | ~ | PERATI | | | • • • | VG DATA | AND LEV | ≪ & © © | NOISE |
| | PRODUCED ON THE GROUND | SE SUPPRESSOR | DURING GROUND RUN-UP OPERATIONS | 77-7 CODE & VERSION | | RPM | THE FOLLOWING DATA | NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY NORMALIZED SPL AT 250 FEET NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FRO PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM | A A B B B B B B B B B B B B B B B B B B | 1 8 to to to |
| SUPPRESSOR SUPPRESSOR | NOISE PROD | F-4 NOISE | DURING GRO | TEST AIRCRAFT PROFILE V COMPUTER PR | Setting | gine Runup, 85% RPM . litary Power, 98.5% R terburner Power | WER SETTING, | NORMALIZED DATA AS A FUNCTION OF AN NORMALIZED SPL AT 250 FEET NOISE LEVELS AS A FUNCTION OF ANGL. PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISI A-WELGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WELGHTED OVER NOISE LEVELS AS A FUNCTION OF ANGLIS | т н О С О С О С | SUPPRESSOR SUPPRESSOR |
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| USAF F-4 MOISE SUPPRESSOR | | | | | | | | | < 3 | SUPPRESSOR SUPPRESSOR |
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| | 1/3 OCTAVE DISTANCE = | BAND 250 | X H | 2 2 3 | רבעבר | 9 | | | | | | | | ` ` ` | TEST | 77-73 | TEST 77-731-001 | |
|--------------------------|---|-------------|-----------|-----------------------|--|-----------|-----------|-------------------------|----------|---------------|---|--|-------------|-------------|---|--|--------------------|---------------------|
| NOISE F-4 AF32 | SOURCE/SUBJECT: Noise Suppressor A-14 | S 0 R | | OPERA SING SOIN | FERATIONS ENGINE RU SINGLE EN GROUND RU | N I DE | | 85% RPH (Suppressed) | | | ETEOROLOGYS TEMP BAR PRESS REL HUMID | 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 6039 N X | ğ. | KUN 61 AIRCRAFT C OPERATION C PROFILE VER 28 NOV 79 PAGE C1 | UI LAFT TION ILE VE V 79 C1 | ODE ODE Sion | 731 86118 - A |
| BAND CENTER FREQ (HZ) | 9 | 97 | 20 | 0 m | 0.7 | 30. | 9 | ANGLI 76 8 | | GREES 0 10 | 17 | 0 120 | 130 | 140 | 150 | 160 | 170 | 160 |
| 20 | 73 | 72 | 69 | 7.1 | 73 | o | 72 | 75 7 | 7 | ~ | ~ | 47 | | ∞ | | 75 | 75 | 7.4 |
| 63 | 73 | 17 | 70 | 69 | 73 | m | 73 | | | _ | * | | | • | | 92 | 92 | 75 |
| 3 | 7.1 | 29 | 99 | 69 | 73 | ю. | 72 | | | 9 | σ | | | • | | 73 | 72 | 72 |
| 100 | 12 | 2 | 71 | 23 | 12 | 10 | 92 | | | _ | a | | | • | | 15 | | 2 |
| 125 | | 21 | 72 | 23 | 75 | m (| 72 | | | ~ I | -1 (| | | 40 (| | 4 | 73 | 2 |
| 70c | 22 | 22 | 27 | 2 K | 22 | 2 4 2 | 1 | 7 27 | 7 21 | 7 47 | 75 | 2 2 2 2 2 2 2 | 7.6 | 9 6 | 7.2 | . . | 7 7 8 | 2 2 |
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| 315 | 15 | 2 | 25 | 75 | 92 | • | 77 | | | ~ | • | | | ~ | | 92 | 11 | 92 |
| 004 | 69 | 29 | 76 | 70 | 70 | | 70 | | | 9 | • | | | 7 | | 7.4 | 72 | 70 |
| 500 | 70 | 69 | 11 | ヹ | 69 | m | 70 | | | 9 | . | | | ~ | | 69 | 99 | 29 |
| 630 | | 65 | 29 | 29 | 68 | N | 69 | | | و | | | - | Φ | | 29 | 6 5 | 63 |
| 900 | | 65 | 29 | 69 | 20 | m | 69 | | | 9 | • | | | 9 | | 65 | 63 | 5 |
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| 1250 | | 65 | 29 | 69 | 73 | m | 68 | | | ٩ | _ _ | | | 9 | | 61 | 61 | 9 |
| 1600 | 69 | 6 2 | 99 | 89 | 2 | _ | 68 | | | 9 | m | | | 9 | | 65 | 49 | 62 |
| 2000 | 73 | 69 | 69 | 20 | 70 | _ | 69 | 9 | | 9 | • | | | 9 | 2 | 69 | 9 | 65 |
| 2500 | 47 | 69 | 69 | 7 | 7 | _ | 9 | 9 | 9 | 9 | . | | | 9 | | 72 | 7 | 9 |
| 3150 | 7.7 | 9 | 99 | 69 | 69 | -4 | 89 | | _ | 9 | - M | | | • | | 75 | * | 0 |
| 0004 | 73 | 5 | 99 | 20 | 2 | ~ | 29 | ۰ | <u>ق</u> | 9 | m | | | 9 | | 7 | 72 | 9 |
| 2006 | 7.1 | 7 | 49 | 29 | 29 | | 9 | m | | 2 | | | ٩ | • | | 99 | 9 | \$ |
| 6300 | 68 | 29 | 61 | 49 | 1 9 | ۵ | 61 | | 9 | | _ | | | • | | 5 | 65 | |
| 9000 | †9 | <u>5</u> | 25 | 9 | 53 | | 25 | R | | 4 | ~ | | Š | r. | | 61 | | 29 |
| 1000 | 49 | 24 | 25 | 26 | 22 | ~ | 25 | თ | | 4 | ٠ | | r. | * | | 25 | | |
| OVERALL | 96 | 83 | 83 | * | 96 | 87 | 82 | 8 48 | 84 | 8 | 4 0 4 | 98 | 86 | 5 91 | 87 | 87 | 96 | 8 |
| | | | | | | | | | | | | | | | | | | į |

| 644F006 664FFWW | 9. | RATIONS SYNCE SYNCE ROCINE ROCINE ROCINE 8 99 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | S GUNDA | | | | | | | | | | • | 100-101-11 | |
|---|---------------------------------------|---|----------------------|---|---|-----------------------------|-----------------------------------|---|--|---|----------------------|--|---|--|-----------------------------|
| DISTANCE 0 10 20 20 200 200 200 200 200 200 200 | | | LAS | 85% RPM (Suppressed) | SE0) | METE))) DELT | DROL DROL BAR BAR BAR | , va. | = 59 =29,92 = 70 | N X | | ARCRAFT OPERATIO PROFILE 26 NOV 7 | 11 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | CODE 7 CODE 0 ERSION | DE 731) DE 00116) ION A) |
| 999.9 94.8 95.6 97.8 95.7 94.8 95.8 95.8 95.8 95.8 95.8 95.8 95.8 95 | P | თ დოთ ა | 9 | 20 | ANGLE | (DEGREES) 90 100 | ! | 110 | 128 | 130 | 140 | 150 | 166 | 170 | 180 |
| 92.8 97.8 88.7 99.2 99.2 99.2 99.2 99.2 99.2 99.2 99 | , . | on : | -4 e0 tr | Mod | 50 W M | 94.6 | 90.6 | 5 K M | ⇔ 10 ~ | N 00 40 | 446 | m nt N | W 01 G | | 96.4 |
| 81.8 77.1 77.9 75.2 76.6 74.6 71.4 71.4 71.4 66.9 67.7 67.2 62.7 63.7 65.4 53.0 57.4 53.6 54.3 51.5 65.8 65.8 | 900 3 900 87.8 800 85.1 85. | t eo • | | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 0 4 k 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 4 4 5 5 | | 92°3 87°1 | 6 | 00 00 00 00 00 00 00 00 00 00 00 00 00 | 86.0 |
| 75.2 74.0 74.0 77.4 71.4 70.0 67.7 71.4 62.7 63.7 62.7 63.7 65.4 59.3 57.5 57.5 57.5 57.5 57.5 57.5 57.5 57 | | | 1 (1) | - 1~1 2 us. | 4 | t 190 (| , 40 | | | | ارد | | · 100 | | 8. |
| 62.4 58.2 199.3 57.4 53.0 174.3 51.5 45.5 65.5 | | 0 78.1 6 74.7 9 71.0 | 75.1 | + a m e | 72.3 66.9 65.1 65.1 | | 69.2 | N ~ 6 4 | | 75.17.76.79.90 | 74.9 | 77.9 | . | | 74.7 |
| | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | |) N/ 40 40 | 57.00 57.00 50.00 | n + n | | | | 4 (4 (4 (5) | | 9 M 4 D | | | | 57.3 |
| 44.7 40.5 42.5 38.7 35.1 37.1 | | 42 | 43.0 37.8 | 60 60 | H M | ന ഛ | | m u | • • | - « | | N 10 | øe | | 36.8) 32.2) |
| (10006 31.9 27.6 30.7 3 (12500 22.5 16.3 22.6 2 (15000 9.1 7.3 10.8 1 (25000 | 31.3 32. 23.6 23. 10.8 7. | 6 35.2 6 10.9 8 9 | 31.5 23.7 10.3 | 26.2 16.5 6.9 | 26.0 2 16.0 5.9 | 9.2 4 | 22.7 13.8 4.8 | 22° 1 12° 1 2° 1 | 126.0 127.0 12.0 13.0 13.0 | 25. 6. 6. 6. 6. 6. 7. 8. | 30.3 22.9 11.1 | 200 000 000 000 000 000 000 000 000 000 | 28.6 20.9 2.5 5.5 | 17.9 10.4 2.9 | 153.2 |

|) IEST 77-731-801 | METEOROLOGY: | (DEGREES) 90 100 110 120 130 140 150 160 170 100 | 5 93.4 93.6 96.5 96.2 98.4 99.3 188.6 99.7 2 91.2 91.4 94.2 93.9 96.1 97.1 98.3 97.4 6 86.9 89.0 91.8 91.6 93.8 94.7 96.8 95.8 | 3 86.6 86.6 89.4 89.2 91.3 92.3 93. 7 84.2 84.1 86.9 86.6 88.8 89.7 91. 9 81.7 81.4 84.2 83.9 86.1 87.1 88. 0 79.2 78.8 81.4 81.2 83.3 84.2 85. | 6 75.5 76.0 78.5 78.2 88.4 81.2 82.4 81.3 78.8 78.5 1 65.5 1 69.9 75.3 75.1 77.3 77.9 79.1 78.8 78.2 1 76.8 75.2 1 76.5 1 76.3 77.9 79.1 78.8 78.2 1 76.8 78.2 1 7 |
|-------------------|---|---|--|--|---|
| NT I FICAT | IN U1 IRCRAFT PERATION ROFILE VE 1 NOV 79 | 168 | 100.6 96.3 96.0 | 94.6 91.6 86.8 85.8 | |
| 2010 | | 150 | 99.1 | 89.1 | |
| | 9 | 140 | 96.4 96.1 93.8 | 91. 86. 86. 84. 84. | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| ! ! | FEX | 130 | 96.2 93.9 91.6 | 89.2 86.6 83.9 | 17.00 |
| | =29. | 120 | 96.5 | 89.4 86.9 84.2 | |
| | P PRESS HUMIC | • | 93.6 91.4 89.0 | 98.42. | 200 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| | METEORI TEI BAF REL | GREES) | 93. | | |
| | | | 997 | 86.3 85.7 82.9 80.0 | 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| | | ANGLE | 93.7 91.4 89.0 | 86. 84. 78. | 20 MAKWAMAMA MAKWAYYAWA MAKWAYYAWA MAKWAMAWA MAKWAMAWA MAKWAMAWA |
| DB) Source | 85% RI E (SUPPI | 2 | 95.3 93.0 | 66.1 85.5 82.8 80.2 | 20 WEENSON WEE |
| EL CPN FROM | 555 | 9 | 96. | 89. 87. | 00000000000000000000000000000000000000 |
| DISTANCE FR | OPERATIONS ENGINE SINGLE GROUND | 25 | 108.7 96.4 96.0 | 999 | 200 14 10 00 14 10 00 10 10 10 10 10 10 10 10 10 10 10 |
| VED NOISE | 9 | 3 | | 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| 12 9 | | R | 92. | 99.3 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| | SS OR | 50 | 96. 94. | | |
| CORRECTE | SUPPRESSOR | 97 | | 67.8 85.4 82.7 80.0 | 2000 |
| TONE-C | CE/S 15E | | 106.6 98.3 95.9 | 93.5 91.0 88.3 85.5 | 6777668848 80 00000000000000000000000000000000 |
| (TABLES | NOISE SOU | DISTANCE (FEET) | 200 250 315 | * | |

The Control of the Co

| (TABLE: | A-NEI AS A | A-WEIGHTED OVERALL AS A FUNCTION OF A | OVERALI | SOUN | _ ō | EVEL (DBA) DISTANCE | FROM S | SOURCE | | | | | | | | DENTI OMEGA) TEST | DENTIFICATIONS OMEGA 8.2 TEST 77-731-83 | FION: | |
|-----------------------------|------------------------|--|------------|-----------|------------|---------------------------------------|--------|---|-------------|------|--|----------------|-------------------------|--------------|----------|--|---|-----------------------|---------------------|
| NOISE SC NOISE SC F-+ | URCE/ NOISE A-14 | SUPPRE | SSOR | | OPERA S | RATION: ENGINE SINGLE GROUND | RUNUP | 85% RPH (SUPPRESSED) | H ESSED) | ĒÕ | METEOROLOGY TEMP BAR PRE REL HUN DELTA N = | PRESS HUNID | = 59 = 29,92 = 70 | N N HG | | AIRCRA DOPERATION (DOPERATION | 12 E ST | CODE CODE RSION | 731 00118 A |
| (DISTANCE ((FEET) | ω Θ | 1.0 | 8 0 | 30 | 3 | 50 | 9 | e 2 | ANGLE 80 | • | (DEGREES) 90 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| (200 | 85.1 | | | 82. | 84.0 | 85.3 | 82.0 | 79.8 | 78.6 | 78.6 | 78.7 | 78.2 | 90.0 | 6.08 | 82.8 | 83.6 | 83.7 | 83.2 | 80.6 |
| 250 | 82.9 | 78.2 | 79.3 | | 81.9 | 83.1 | 79.9 | 77.7 | 76.5 | 76.4 | 76.6 | 76.0 | 78.5 | 78.7 | 90.0 | 81.6 | 81.5 | 81.0 | 78.3 |
| 610 | 78.3 | | | | 42.4 | 76.7 | 75.5 | 73.3 | 72.2 | 71.9 | 72.3 | 71.6 | 74.0 | 74.2 | 76.7 | 79°4 | 76.0 | 78.7 | 78.1 |
| 200 | 75.5 | | | 73. | 75.1 | 76.4 | 73.2 | 71.0 | 69.9 | 9.69 | 70.0 | 69° 4 | 71.7 | 71.9 | 73.9 | 24.6 | 74.5 | 73.9 | 71.4 |
| 630 | 73.4 | 69.1 | 70.2 | 7. | 72.7 | 74.0 | 70.9 | 68.6 | 67.6 | 5.79 | 67.7 | 67.0 | 69.3 | 4.69 | 71.5 | 72.1 | 72.0 | 71.3 | 68.9 |
| 006 | 30. | 8 66.7 | | 6 | 70.3 | 71.6 | 68.5 | 66.2 | 65.2 | 2.49 | 65.3 | 64.5 | 66.8 | 6 • 99 | 69.0 | 69.5 | 69 °4 | 68.7 | 66.3 |
| 1000 | 68.1 | | 65.3 | 66 | 67.8 | 69.1 | 66.0 | 63.7 | 62,7 | 62.0 | 62.7 | | 64.2 | 64.3 | 66.4 | 66.8 | 66.6 | 65.9 | 63.6 |
| 1250 | 65. | | | 63. | 65.1 | 66.5 | 63.3 | 61.0 | 60.1 | 59.5 | 90.09 | N | 61.4 | 61.5 | 63.7 | 63.9 | | 65.9 | 60.7 |
| 1600 | 62. | | | 60. | 62.3 | 63.7 | 60.5 | 58.5 | 57.3 | 56.3 | 57.1 | m | 58.4 | 58.5 | 60.8 | 60.8 | 9.09 | 28.5 | 57.5 |
| 0002 | 59.1 | 25.5 | 56.4 | 57. | 20° 4 | 60. | 57.6 | 55.2 | 54.4 | 53,3 | 54.0 | ~ | 55.3 | 55.4 | 57.8 | 57.6 | 57.4 | 56.3 | 54.4 |
| 3150 | 52.2 | | | | 5,00 | 24.4 | 51.1 | 2 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | 51° 5 | 100 | 7000 | 47. 45.1 | 51.9 48.1 | 51.9 68.8 | 7. 0. | 54.0 | 53.7 | 52.6 | 50.7 |
| 0004 | 48 | 3 44.8 | 46.4 | 47 | 285 | 50.7 | 47.3 | *** | 44. | 42.5 | 43.1 | | 63.9 | 43.0 | 47.0 | 45.9 | 45.4 | 46.4 | 42.4 |
| 2000 | 44. | | | 4 | 45.2 | 46.7 | 43.2 | 40.6 | 40.0 | 38.2 | 38.8 | 9 | 39.4 | 39.3 | 42.8 | 41.3 | 40.7 | 39.3 | 37.6 |
| 6300 | 39.6 | | | 38 | 40.9 | 45.4 | 38.8 | 36.1 | 35.6 | 33.7 | 34.3 | - | 34.8 | 34.6 | 38.4 | 36.5 | 35.8 | 34.3 | 32.7 |
| 0000 | 35. | 31.9 | 33.5 | M fe | 36.5 | 38.2 | 34.7 | 32.1 | 31.7 | 29.7 | 30.3 | ~ | 30.9 | 30.7 | 34.4 | 32.4 | 31.9 | 30.4 | 28.9 |
| 18080 | 30.6 | | 29. | ď | 31.7 | 33.7 | 30.3 | 27.8 | 27.5 | 25.4 | 26.1 | 25.2 | 26.0 | 7 36 | 7 02 | • | | 96 | , |
| (12500 | 25.6 | 22.8 | | 25,3 | 26.6 | 28.8 | 25.6 | 23.1 | 22.9 | 26.4 | 21.6 | 20.0 | 22.7 | | 25.6 | 2007 | 3400 | 2007 | 100 |
| (16000 | 20.3 | | 19. | ÷ | 21.0 | 23.6 | 20.6 | 18.1 | 16.0 | 16.0 | 16.9 | 16.3 | 18.2 | 18.1 | 20.9 | 19.4 | 19.5 | 18.1 | 16.9 |
| 1 20080 | 14.7 | | 7 | ; | 15.1 | 17.9 | 15.2 | 12.9 | 12.7 | 11.0 | 12.0 | 11.5 | 13.5 | 13.5 | 16.1 | 14.7 | 14.8 | 13.5 | 12.4 |
| (25000 | 9. | | å | 6.9 | | 11.9 | 9.5 | 7.4 | 7.2 | 2.5 | 7.0 | 9 | 8.7 | 8.7 | 11.5 | 6.6 | 6.6 | 9 | 7.6 |
| , | | | | 1 | 1 | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | |

| TABLE: | TONE-C | TONE-CORRECTED, AS A FUNCTION O | | IGH | HTED OVE AND DIS | OVERALL SI DISTANCE I | SOUND LI | LEVEL ((| (DBA) | | | | | | | DENT) | IDENTIFICATION OMEGA 8.2 TEST 77-731-01 | 10Ns | |
|------------|--------------|---|--------|------|----------------------------|---|--------------------------|-------------------------|---------------|----------|---|----------------|------------------------|--------|-------|--------------------|---|--------------------------------------|---------------------|
| NOISE SO | 1 SE 1 | UBJECT: Suppres | | | OPERA RRA RRA GNE | RATIONS ENGINE SINGLE GROUND | RUNUP ENGINE RUNUP | 85% RPH (Suppressed) | FSSE0) | 3 3 | HETEOROLOGY TEMP BAR PRE REL HUM | PRESS HUMID | = 59 =29.92 = 70 | F NI X | ,, | PROFE PAGE | 1 × × × × × × × × × × × × × × × × × × × | CODE 7 ON CODE 0 VERSION 79 | 731 10116 A) |
| (OISTANCE | | 107 | 2 | 30 | 3 | 50 | 9 | 9. | ANGLE 80 | OEGREES: | 2EES) 100 | 110 | 120 | 130 | 146 | 150 | 160 | 170 | 160 |
| 200 | 85.9 | 400 | 82.1 | | | 86.6 | 82.7 | 60.7 | . | 80.2 | 79.4 | 78.9 | 81.3 | 6.08 | 82.8 | 83.8 | | | 61.1 |
| 250 | 63.6 81.4 | 78.2 | 79.9 | 78.5 | 8 % 8 % 8 % | 84.5 | 78.4 | 78.6 | 75.1 | 75.8 | 75.2 | 76.6 | 79.2 | 78.7 | 78.4 | 81.6 79.4 | 80.3 | 79.4 | 76.6 |
| 004 | 79.0 | 73.8 | 75.5 | | | 80.0 | 76.2 | 74.2 | | 73.5 | 73.0 | 72.4 | 74.7 | 74.2 | 76.2 | 77.0 | | _ | 74.3) |
| 005 | 76.6 | 71.5 | 73.2 | | ŝ | 77.8 | 73.9 | 71.9 | • | 71.2 | 70.7 | 70.1 | 72.4 | 71.9 | 73.9 | 74.6 | | | 71.9) |
| 929 | 74.1 | 69.1 | 9 9 9 | | m, | 75.4 | 71.6 | 69.6 | m a | 68.7 | 4.6 | 67.7 | 70.0 | 4.69 | 71.5 | 72.1 | | | 69,5 |
| 3 | (1.2 | • | • | | 4 | • | 7 .60 | 7.70 | • | 7.00 | • | 2 • 60 | | 600 | 9 • 6 | 0.00 | | _ | |
| 1000 | 68.8 | 64.1 | 62.9 | | 68.4 | 78.5 | 66.7 | 64.7 | ıs | 63.6 | 63.4 | 62.7 | 6.49 | | 4.99 | 66.8 | | | 64.2) |
| (1250 | 62.9 | 61.4 | 63,2 | | 65.7 | 67.8 | 9+9 | 61.9 | 80 | 8.09 | 60.7 | 59.9 | 62.1 | 61.5 | 63.7 | 63,9 | | | 61.3) |
| 1500 | 63.0 | 58.1 | 900 | | 63.6 | 65.0 | 61.2 | 59.1 | | 57.9 | 57.8 | 57.0 | 59.1 | | 60.8 | 60.6 | | | 58.2) |
| 25.00 | 20 00 | 52.2 | 0 m | | 0 C | 59.1 | 55.0 | 52.9 | - 1 ca | 51.5 | 51.4 | 50.0 | 52.6 | | 50.0 | 0 - 1 0 0 - 1 0 | | | 51.3) |
| 3150 | 52,9 | 48.7 | 50.8 | | 53,5 | 55.7 | 51.8 | 49.5 | ٠ | 47.9 | 47.8 | 46.8 | 4.8.8 | | 50.9 | 50.1 | | | 47.3) |
| 0004) | 46.9 | 44.8 | 46.9 | | 4 9° 8 | 51.8 | 47.9 | 45.5 | | 43.7 | 43.7 | 45.6 | 44.5 | 43.8 | 47.0 | 45.9 | | | 42.8) |
| 5000 | | 40.5 | 45.5 | | 45.6 | 47.5 | 43.6 | 41.1 | . | 39.2 | 39.2 | 38.1 | 39.9 | 39.3 | 45.8 | 41.3 | | | 37.9 |
| 6360 | 3.0° 0 | 36.0 | 37.9 | 38.6 | 41.2 | 42.9 | 39.1 | 36.5 | 35.9 | 34.0 | 34.5 | 33.4 | 35.0 | 34.6 | 30.4 | 36.5 | 36.2 | 34.6 | 32.9 |
| | | | | | 5 | | , | 2 | , | | • | • | | • | • | | | | • |
| | 30.6 | 27.5 | 29.5 | 30.1 | 31.7 | 33.7 | 30.3 | 27.8 | 27.5 | 25.4 | 26.1 | 25.2 | 26.9 | 26.7 | 30.1 | | | 26.5 | 25.1) |
| (12500 | 25.6 | 22.8 | 24.5 | | 5 6 6 | 28.8 | 25.6 | 23.1 | 22.9 | 20.9 | 21.6 | 20.9 | 22.7 | 22.5 | 25.6 | 5 | _ | | 21.1 |
| 16000 | 20.3 | 17.9 | 19.5 | 20.1 | 21.0 | 23.6 | 20.6 | 10.1 | 18.0 | 16.0 | 16.9 | 16.3 | 18.2 | 18.1 | 50.8 | 4 | LA | | 16.9 |
| 20000 | 14.7 | 12.7 | 14.2 | | 15.1 | 17.9 | 15.2 | 12.9 | 12.7 | 11.0 | 12.0 | 11,5 | 13.5 | 13.5 | 16.1 | ~ | _ | | 12.4) |
| 25000 | 9.4 | 7.2 | 8.6 | | 8 | 11.9 | | 7.4 | 7.2 | 2.4 | | 9.0 | 8.7 | 8.7 | 11.5 | σ | _ | | 7.6 |
| | | | | | | | | | | | | | | | | | | | ^ ' |
| | | | 100000 | | - | | | | | | | | | | | | | | |

| | | | | | ; | | | | | | | | | | - 1 | UNESK DOC | | 2 |
|--|---------|-----|-----|-----|---|----------|---------|----------------|--------|-------------|--------|------------------|----------|------------|----------|--------------------|--------|----------|
| ## CALTER RANUP 652 RPH HETGOROLOGY STRCKET COOR STRCKET COO | | ! | • : | _ ! | | | | • | | ! ! ! | | | | 1 | | REST 77 | -731-0 | <u></u> |
| THE COLOR OF STATE AND TO STATE | | | 4:1 | (| | 300 | RATIONS | | | , |) METE | OROL OGY 8 | • | | | AIRCRAF | T C006 | 731 |
| GROUND RUNUP (SUPPRESSED) DELTA N = 0.0 00 0 1 PAGE 34 NOT 7 1 24 NOT 7 1 PAGE 34 NOT 7 PAGE 34 NOT 34 NOT 7 PAGE 34 NOT | | | ĺ | ¥ | | . | CINCINE | PONOR PATER | 85% RP | . | | TEMP BAD DDFC | | . 2 | ~ ~ | DPEKATI PPOFTIF | WED ST | . e 617 |
| DELIAN = 0.0 009 DAGE 13 DELIAN | | | | | | . 🖵 | GROUND | | (SUPPR | ESSE0) | . ~ | | | ~ | _ | 28 NOV | 79 | |
| A T A T A T A T A T A T A T A T A T A T | | • | | | | • | | | | |) OEL1 | | 9 | | _ | | 1 | |
| A | | | | | | d d | NLT | | | 4 | | | | T=AL | - | | | |
| X X X X X X X X X X X X X X X X X X X | | | | • | | • | | | | | | | | | | | • | <u> </u> |
| X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | • | • | • | • | • | • | • | • | • | • | • | • | • | • | - - | • | • | • |
| A | • | • • | | • • | | • • | | | • • | • | | • • | • • | × | | • • | • • | . ~ |
| X | 2 | • | | • • | | • | | | • | • | | • | • (| • | | • • | • • | |
| | • | | | • • | | • • | | • • | • • | • | | | • • | | | • • | • • | |
| AT A | • | | • | • | • | • | • | • | • | • | • | • • • • | • | • | × | • | • | • |
| A T A T A T A T A T A T A T A T A T A T | 7 | • • | | • • | | • • | | | • • | | | • • | • • | - • | AT | • • | • • | |
| AT A | • | • | | • | | • • | | | | • | _ | | • • | • | | . • | • | . ~ |
| X X X X X X X X X X X X X X X X X X X | ; | • | | • | | • | | • | • | • | | • | • | • | , AT | • | • | |
| X X X X X X X X X X X X X X X X X X X | - | • • | • | • | | • | • | • | • • | • | • | • | • | • | 11. | • | | - 7 |
| X X X X X X X X X X X X X X X X X X X | ; | | • | ••• | • | | • | • • • | • | • | • | • | • | • | • | • | • | ; ~ |
| X | = | • | | • | | • | | • | • | • | | • | • | AT. | _ | • | • | ~ |
| X | • | • | | • | | • | | | • • | • | | • • | • • | × | | • • | • | |
| X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | : | | | • • | | • • | | • • | • • | • | | • • | • • | • | | • | • • | . ~ |
| X AT | 7 | • | • | • | • | • | • | • | • | • | • | • | • | . A T | • | | • | • |
| AT | 944 | • • | | • • | | • | | | • • | | | • • | | × | | • • | • • | ~ ~ |
| AT | • | • • | | • • | | • • | | | • • | • | | • • | • | | | | • | . – |
| AT A | 131 | • | | • | | • | | • | • | • | | • | • | AT . | | ٥. | • | ~ - |
| X X X X X X X X X X X X X X X X X X X | 128 | • | • | | • | • | • | | • | • | • | | • | . AT. | • | | • | ٠. |
| X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | | • | • | • | • | • | • | • | • | • | , | • | • | • • , • | | • | • | ; ~ . |
| A T P P AT P P P AT P P P AT P P P P P P | | • • | | • • | | • • | | | | | | | • • | ₹ • | | • • | • • | |
| X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | :: | • | | • | | • | | • | • | • | | • | • | . • | × | • | • | _ |
| AT P AT P P AT P P AT P P AT P P P AT P P P P | | • | , | • | | • | • | • | • | | | | • | | , × | • | • | |
| AT P AT P P AT P P AT P P P P P P P P P | | • • | • | • | • | • | • | • | • | • | • | • | • • • | • | • | | • • | • ^ |
| 6 10 20 30 40 50 60 70 80 90 100 | 91 | • | | • | | • | | | • | • | | • | • | • | - V - | • | • | ~ - |
| (| 171 | • | | • • | | • • | | | • • | - • | | • • | • • | - • | , AT | • • | • • | ٠. |
| (| • | • | | • | | • | | | • | . • | | • | • | • | | • | • | - |
| 30 40 50 60 70 80 90 100 | 100 | • • | • | • | • | • | • | • | • | • | • | • | • | AT. | • | • | • | • |
| 30 40 50 60 70 80 90 | | • | i | • | | • ! | | | • | | | • | • | | | . ! | • | ` î |
| | | • | | 10 | | 20 | | 30 | 0+ | ٠, | 20 | | 70 | - | 90 | 8 | Õ | |

| TABLE: NO | NORMALIZED 1/3 OCTAVE | SOUND | PRE | SSURE | LEVEL | ۲ (08) | | | | | | | | | H | DENTIF | 5 6 | NO. | |
|--------------|--------------------------|----------|------------|----------|------------|--------------|-------|-------------|----------|------------|---------------------|-------------|----------|----------------|------------|-----------|----------------------------|-----------|------------|
| | - | 250 | FEET | | | | | | | | | | | | - | TEST 7 | 7-731 | -001 | |
| NOISE SOURCE | SOURCE/SUBJECT : | - e | | OPERAL | NOL | 300 | 8 | 5 7 7 | ~ ~ | AETE(| 280L0 | , , , | ì | | | AIRCRAF | . - 9 | 100E 7 | 31 |
| • | | í | <i>.</i> – | SI | w | ENGINE | | 2 | : | 8 8 | PRE | =2 | 9.92 | IN HG | - | PROFIL | - - - - - - - - - - | SION | 4 |
| | | | - - | 5 | 2 | RUNUP (SL | (SUPF | SUPPRESSED) | (C) | | ZEL HUMID TA N = | 11 🙃 | 70 08 08 | × | ^ ^ | 28 NOV | とぶ | | |
| BAND CENTER | | | İ | | 1 | | | ANG | - W | S. E. E. | | | | | | | | | |
| • | • | 10 | 20 | 30 | 9 | 20 | 60 | 20 | 90 | 0 6 | 0 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 56 | 76 | 192 | 7. | 92 | 76 | 92 | 79 | 79 | 62 | 78 | 19 | 77 | 79 | 81 | | 81 | 82 | 82 | 82 |
| 63 | 7.7 | 92 | 73 | 75 | 79 | 62 | 62 | :D | 81 | 81 | 81 | 80 | 78 | 81 | | 82 | 81 | 82 | 82 |
| 36 | 79 | . 92 | 73 | 8.2 | 91 | 79 | 61 | 80 | 81 | 80 | 81 | 79 | 80 | 82 | | 82 | 79 | 82 | 81 |
| 100 | 92 | | | 19 | 80 | 23 | 80 | 81 | 83 | 79 | 4 | 80 | 81 | 48 | | 63 | 83 | 91 | 80 |
| 125 | 92 | | 92 | 0 | 85 | 4 | 81 | 18 | 82 | 7.8 | 62 | 62 | 62 | 9 (| | 48 | 83 | 4 | 4 |
| 100 | 9 2 | 2; | 5. | 9/ | ۲: | 8 2 | 77 | 62 | 250 | 3) (S | 28 | 2) (S | 62 | ب د و | | 20 | 5 | 7 F | 6, |
| 250 | 28 | | 2 2 | 22 | 9 G 0 K | 10 | 1 6 | 9 K | 1 5 | V 6 | 4 C | Σ K | 9 F | 2 c | 9 M | 0 K | 7 M | 9 M | 2 2 |
| 315 | 81 | | 92 | 78 | 9 | . 6 9 | 83 | 80 | 79 | 81 | 81 | 81 | 80 | 81 | | 82 | 8 | 2 | 78 |
| 004 | 80 | | 11 | 77 | 79 | 81 | 81 | 80 | 79 | 81 | 90 | 80 | 81 | 80 | | 81 | 82 | 82 | 7.8 |
| 50 G | 78 | | 11 | 92 | 77 | 7.8 | 82 | 7.8 | 11 | 62 | 11 | 92 | 92 | 7.8 | | 7.8 | 79 | 28 | 15 |
| 630 | 92 | • - | 75 | 75 | 92 | 11 | 92 | 77 | 7.8 | 22 | 92 | 74 | 22 | 75 | | 74 | 92 | 75 | 72 |
| 200 | 77 | •-• | 22 | 77 | £ ; | 61 | 79 | 78 | 78 | 5 2 | 72 | 73 | 73 | 74 | | 22 | 74 | 73 | 72 |
| 1000 | 72 | • | 9 4 | 7 2 | 22 | :: | 24 | 6 h | 9 2 | ± ; | 7.3 | 75 | 27 | D (| | 77 | 2 7 | 5 C | 9 6 |
| 1600 | 7.2 | : 2 | | 12 | 2: | . 52 | 22 | 7 5 | 2. | 7.2 | 7.7 | 12 | 17. | 7.7 | | 72 | 7.2 | 75 | - 6 |
| 2000 | 22 | 28 | 74 | 25 | 75 | 22 | 25 | 73 | 72 | 69 | 69 | 69 | 11 | 73 | | 73 | 74 | 73 | 72 |
| 2500 | 7.4 | | 73 | 72 | 72 | 72 | 72 | 11 | 69 | 29 | 69 | 7.1 | 7.0 | 73 | | 74 | 73 | 74 | 42 |
| 3156 | 75 | 22 | 74 | 75 | 73 | 4 | 7.4 | 72 | 70 | 68 | 9.2 | 12 | 72 | 73 | | 74 | 14 | 92 | 22 |
| 8 | 42 | | 73 | 72 | 72 | 7.4 | 72 | 72 | 72 | 72 | 20 | 72 | 72 | 15 | | 15 | 92 | 11 | 74 |
| 5000 | 72 | r. | 69 | 68 | 69 | 71 | 69 | 68 | 68 | 68 | 29 | 99 | 68 | 69 | | 69 | 69 | 7.1 | 69 |
| 9 | 89 | | 99 | † | 62 | 9 | 99 | 65 | † | 9 | 63 | 99 | \$ | 99 | | 99 | 99 | 68 | 99 |
| 8 | 99 | | 29 | 19 | 29 | 6 2 | 62 | 61 | 9 | 9 | 20 | 53 | 23 | 61 | | 61 | 62 | 79 | \$ |
| 10000 | g O | 5 | 2 6 | 52 | 22 | 25 | | 53 | 53 | 25 | 21 | 21 | 25 | 53 | | 53 | 26 | 61 | 4 9 |
| OVERALL | 34 | 16 | 88 | 89 | 16 | 95 | 95 | 16 | 26 | 16 | 91 | 16 | 16 | 93 | 93 | 93 | 93 | 93 | 91 |
| | | | - | | | | 1 | | | 1 | 1 | | | 1 | | | | | |

Ħ

| NOISE SO | AS A | A FUNCTION | N | Ä | AND DIS | | FROM S | SOURCE | | | | | | | |) OMEGA | OMEGA 8.2 Test 77-731- | 2 31-001 | |
|--------------------|----------------------|-----------------------------|-------------------|------|---|--|--------------------------------|--------|-------------------|--------|--|-------------------------|-------------------------|------------|--------------------------------------|-------------------------|----------------------------------|------------------------|-------------------|
| F-4 AF32 | RCE/S OISE -14 | E/SUBJECT: SE SUPPRESSOR | SSOR | | OPERA PERA PERA PERA PERA PERA PERA PERA | ATION: MILITARY SINGLE EN GROUND RU | RY POWER ENGINE RUNUP (S | 98. | 5% RPH Ressed) | 20000 | METEOROLOGY TEMP BAR PRE REL HUN DELTA N = | PRESS PRESS HUNID | = 59,92 = 70 = 70 | F M X | ; ; ; ; ; ; ; ; | AIRCI OPERCI PAGE | ATION ATION ILE V DV 79 | CODE CODE ERSION | 731 80184 A |
| DISTANCE (FEET) | • | 10 | 28 | R | 7 | 50 | 99 | 9.2 | ANGLE | E (DEG | EGREES) | 110 | 120 | 130 | 140 | 150 | 168 | 170 | 180 |
| 230 | 103.0 | | - | 101. | 2.5 | 103.1 | • | | 9 | 101.0 | 4.0 | | 101.1 | | m | | - | 103.9 | 102.1 |
| 250 315 | 100.0 | 102°2 99°9 | 99.2 | 99.6 | 99.9 | 100.9 96.6 | 180.6 98.3 | 99.6 | 99.3 | 96.7 | 98.2 | 98.5 | 90.00 | | 101.0 | 106.8 | 181.8 98.7 | 101.6 | 99.9 |
| 904 | 96.1 | | 3. | 46 | S S | 96.2 | 6 | 9.46 | 94.6 | 94.6 | | | 94.8 | | . م | | . 80 | 96.8 | 95 |
| 300 | 93.6 | | 91.9 | 929 | ٠ د د | 93.7 | 3 4 | 92.2 | 92.0 | 91. | ÷. | 91.2 | 91.5 | ~ . | ~ c | | | 8 · 16 | 92.1 |
| 9 9 | 88.1 | 89. | 96 | 9 | 1 4 | 88.3 | | 66.9 | 86.5 | 86.3 | ; ; | | 86.3 | • 10 | | | | 9499 | 87.1 |
| ; | 1 | ; | | ; | ; | ; | 1 | ; | | | | | | | | | | | |
| 1001 | 85.2 | 66.5 | | • | £ . | 65.4 | 95.3 | 84.2 | 'n, | 63.7 | m (| 83. | 83.6 | 94.9 | 85.2 | 85.1 | 95.2 | 92.0 | 96 |
| 15.00 | 78.7 | | | 7 2 | 7 8.3 | 70.3 | 707 | 78.6 | 2010 | 44.0 | 77.5 | 27.4 | 96.0 | 78.4 | 9.70 | 20.2 | 20.2 | 6.20 | 77.2 |
| 2000 | 75.5 | 76.6 | 73.4 | 73 | 75.0 | 76.1 | 76.3 | 75.2 | 2 | 7.6.8 | | 74.2 | 7.4.7 | 75.1 | 75.6 | 76.0 | 76.2 | 76.1 | 73.6 |
| 2500 | 71.5 | | | 70. | | 72.2 | 72.4 | 71.3 | 70.9 | 70.9 | 70.4 | 70.2 | 70.7 | 71.1 | 71.6 | | 72.2 | 72.1 | 69.5 |
| 3150 | 67.1 | | | 65 | 67.0 | 67.8 | 67.9 | 66.8 | 2.99 | 66.4 | 66.0 | 65.7 | 66.2 | 9.99 | 67.0 | | 67.7 | 67.5 | 64. |
| 4000 | 62.3 | 63.5 | 61. | 61. | 62.7 | 63.2 | 63.4 | 62.4 | 62.1 | 61.6 | 60.0 | | 61.1 | 61.8 | 62.1 | 62.4 | 62.6 | 62.4 | 59.1 |
| 2000 | 57.2 | | 90 | 9 | 57.9 | 50.4 | 58.6 | 57.6 | 57.2 | 56.5 | 55.7 | | 55.5 | 56.5 | 56.8 | 57.0 | 57.5 | 56.7 | 54. |
| | 46.7 | 48.0 | 0 4 0 4 0 4 | , v | 7.7 | 1 20 1 | 0 P. C. | 67.0 | 2 0 4 4 4 7 | 71.6 | 50°1 | 49.6 | 7.44 | 76.5 | 51.1 | 91.03 46.5 | 72.0 | 900 | 12.6 |
|)) ; | | | } | 3 | : | | • | : | 3 | | | | | | | | | | |
| 10900 | 41.5 | | 39. | 39 | 41.0 | 42.6 | 42.7 | 41.5 | 41.4 | 41.4 | 39.8 | | 39.2 | 6.04 | 40.9 | 41.1 | 41.6 | 40.7 | 36.8 |
| 12500 | 35.6 | | 33. | 32. | 34.6 | 36.1 | 36.2 | 35.5 | 34.8 | | 33.7 | | 33.2 | 34.7 | 34.7 | 35.1 | 35.3 | 34.8 | 30.1 |
| 16000 | 28.8 | | 26. | 24. | 27.6 | 29.7 | 29.6 | 29.1 | 27.7 | 28.8 | 26.6 | | 56.9 | 27.6 | 20.3 | 28.4 | 29.4 | 28.5 | 22.5 |
| 20002 | 16.0 | 19.2 | 7 | 7 | 17.1 | 20.6 | 20.6 | 19.5 | 16.3 | 19.1 | 16.1 | 15.0 | 15.5 | 17.5 | 16.9 | 19.0 | 19.5 | 17.9 | 11.6 |
| 25966 | 7.2 | | 4 | • | 2 | 11.5 | 11.7 | 4 | 4 | 4 | | | 7 | 4 | ď | 3.6 | • | • | 4 |

| NOTEE SOURCE/SUBJECT: CATOMO RUND CADPRESSED TEMP | AS A FUNCTION O | FUNCTION | 44. | ANG LE A | AND DIST | ANCE | FROM S | SOURCE | | | | | | | 1 | OMEGA TEST | GA 8.2 T 77-73 | 2 31-081 | |
|--|--------------------|------------------|---------------------|-------------|----------|----------|-------|-----------------|--------|-----------------|-------|--------|----------------|--------------|-------------|------|---------------|-------------------------------------|------------------------|-------------------|
| STANCE 10 | OISE AF | 14 14 | UBJECT 1 SUPPRES | • | | 3 | | ENGINE RUNUP | R 98.5 | Z RPM ESSED) | 2000 | ELTA N | PRESS HUMIO | =29. =008 | F H X | ب | PAG DAG | CRAFT RATION FILE V NOV 79 | CODE CODE ERSION | 731 86104 A |
| 101.4 102.2 99.2 99.6 99.9 101.6 100.3 100.3 100.1 90.2 99.5 101.6 101.6 101.6 101.6 101.6 101.6 101.6 101.6 100.3 100.1 100.2 101.6 101.6 100.3 100.1 100.2 99.5 99.5 101.1 100.3 100.3 100.1 100.2 99.5 99.5 101.1 101.6 101.3 100.3 100.1 100.2 99.5 99.5 101.1 101.1 101.2 102.5 99.5 99.5 101.1 101.1 101.2 90.5 99.5 101.1 101.1 101.2 90.5 90.5 90.5 90.5 90.5 90.5 90.5 90.5 | (DISTANCE (FEET) | į | • | 20 | j m | 3 | 56 | 09 | 7.0 | 1 3 | Э | 2EES) | 110 | 120 | 1 M | 146 | • | 160 | i ~ | 188 |
| 99.1 99.9 96.9 97.2 97.6 99.5 98.3 97.9 98.0 97.8 95.6 95.6 95.6 95.7 97.8 95.7 97.8 95.8 96.2 97.8 96.3 99.8 99.8 1801.1 99.7 97.8 96.9 96.7 97.8 96.9 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97 | 200 | 183. 7 101. 4 | 104.5 | 101. 99. | | 9.6 | 104.1 | 102. | 8.5 | | £. €. | 100.4 | 100.8 98.5 | @ P7 | | | -40 | ~ 10 | 103.9 | 102.1 99.9 |
| 94.2 95.0 91.9 92.3 92.8 92.8 93.6 93.6 93.0 92.0 93.0 92.0 94.0 91.0 91.0 92.0 94.0 91.6 92.1 93.0 92.8 93.0 92.3 89.3 89.3 89.3 89.3 89.3 89.3 89.3 89 | 4 M15 | 99.1 | 99.9 | 96 | | 9 12 | 99.5 | 98. | | 90.0 | - 10 | 95.6 | 96, 2 | - 10 | | | <u> </u> | | 99.5 | 97.5 |
| 85.8 86.5 83.5 84.8 84.5 85.3 85.3 84.9 84.8 85.1 83.3 83.2 84.2 85.7 86.0 85.9 85.9 85.1 83.3 89.1 89.5 85.8 85.5 85.5 85.5 85.5 85.5 85.5 | 200 | 94.2 | 95.0 | 91. | | 80 7 | 94.6 | 6 | _ | 93.0 | | 91.0 | 91. 2 | | | | | -4.3 | 8.46 | 92.6 |
| 85.6 86.5 83.5 84.0 84.5 86.3 85.3 84.9 84.8 85.1 83.3 83.2 84.2 85.7 86.3 86.2 86.6 85.1 87.3 87.8 82.8 83.3 81.8 82.8 83.3 81.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.3 81.8 82.8 83.8 82.8 83.8 82.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 82.8 83.8 83 | | 88.7 | 89.5 | 96 | | 4 4 | 89.2 | 6.6 | ۰. | 94.5 87.5 | :: | 86.0 | 85.9 | + o | | | n | * 10 | 916 | 87.1 |
| 62.5 63.3 61.5 63.2 62.4 62.0 62.3 61.5 61.5 63.2 62.4 62.0 62.3 61.5 61.5 63.2 63.4 61.0 63.3 77.5 77.6 77.7 77.6 77.7 77.7 77.7 <th< td=""><td>1000</td><td>85.8</td><td>86.5</td><td>83.5</td><td>3</td><td>3</td><td>86.3</td><td>85 85 85</td><td>84.9</td><td>86.0</td><td>85.1</td><td></td><td>83.2</td><td>84.2</td><td>85.7</td><td></td><td>86.2</td><td>86.6</td><td>85.6</td><td>8.48</td></th<> | 1000 | 85.8 | 86.5 | 83.5 | 3 | 3 | 86.3 | 85 85 85 | 84.9 | 86.0 | 85.1 | | 83.2 | 84.2 | 85.7 | | 86.2 | 86.6 | 85.6 | 8.48 |
| 79.3 08.1 76.9 77.3 78.3 08.2 79.4 79.1 79.1 79.3 77.5 77.4 78.4 79.5 77.5 77.4 78.4 79.5 79.9 80.2 80.8 79.8 79.3 78.3 77.5 77.4 78.5 77.4 78.5 77.5 77.4 78.5 77.5 77.4 78.5 77.5 77.5 77.6 77.6 77.6 77.6 77.6 77 | (1250 | 82.5 | 83.3 | 80.3 | : | 81.5 | 83.2 | 82.4 | 82.0 | 82.0 | 82.3 | | 90.4 | 81.4 | 82.6 | 83.1 | 83,3 | 8 3.8 | 82.5 | 80.8 |
| 72.2 72.7 69.6 78.0 71.1 73.1 72.4 72.0 71.9 72.3 70.4 70.2 71.3 72.3 72.7 73.0 73.6 72.6 65.6 65.3 65.6 67.8 65.1 65.5 65.1 67.6 67.8 65.1 65.2 63.2 63.2 63.2 63.2 63.2 63.2 63.2 63 | 1500 | 79.3 | 80.1 | 76.9 | | 78.3 | 80.2 | 79.4 | 79.1 | 79.0 75.8 | 79.3 | | 77.4 | 78.4 | 79.6 | 79.9 | 80.2 | 80.8 | 79.3 | 73.6 |
| 67.7 66.3 65.6 67.0 68.7 67.9 67.5 67.7 67.6 66.0 65.7 66.8 67.8 68.1 68.5 69.1 67.6 65.8 63.2 63.7 62.8 62.8 63.2 63.7 62.8 62.8 63.2 63.7 62.8 62.8 63.2 63.7 62.8 62.8 63.2 63.7 62.8 62.8 63.2 63.7 62.8 62.8 63.2 63.7 62.8 62.8 63.2 63.7 62.8 62.8 63.2 63.7 62.8 62.8 63.2 63.7 62.8 62.8 63.8 63.8 63.7 62.8 62.8 63.8 63.8 63.8 63.8 63.8 63.8 63.8 63 | (2500 | 72.2 | 72.7 | 69.6 | 4 | | 73.1 | 72.4 | 72.0 | 71.9 | 72.3 | | 70.2 | 71.3 | 72.3 | 72.7 | 73.0 | 73.6 | 72.1 | 69.5 |
| 57.5 50.5 56.3 56.3 57.9 50.9 50.6 50.0 57.8 57.3 55.7 54.9 55.0 57.3 57.4 57.6 50.1 52.0 57.8 57.3 57.4 57.6 50.1 52.0 57.3 57.4 57.6 50.1 52.0 57.3 57.4 57.6 50.1 52.0 52.1 53.3 50.8 50.8 50.9 52.6 53.5 53.3 52.6 52.4 51.6 51.1 49.2 49.4 51.4 51.6 51.7 52.3 58.4 65.9 40.9 40.9 40.9 40.7 47.3 46.7 47.3 46.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40 | 3120 | 67.7 | 68,3 | 65.3 | ٠. م | 67.0 | 68.7 | 67.9 | 67.5 | 67.7 | 67.8 | | 65.7 | 66.8 | 67.8 | 68.1 | 68.5 | 69.1 | 67.5 | 999 |
| 52.1 53.3 50.8 50.8 50.6 53.5 53.3 52.6 52.4 51.6 50.1 49.2 49.4 51.6 51.6 51.7 52.3 58.4 66.9 48.0 45.6 45.6 45.5 46.7 47.3 46.9 46.9 48.0 45.6 45.7 47.3 46.9 46.9 48.0 45.6 45.7 47.3 46.9 48.9 48.0 48.9 41.8 41.8 41.8 41.8 41.8 41.8 41.8 41.8 | 2000 | 57.5 | 50.5 | 56.3 | ٠. | 57.9 | 56.9 | 58.6 | 56.0 | 57.8 | 57.3 | | 9.0 | 55.0 | 57.3 | 57.4 | 57.6 | 58.1 | 56.7 | 54.0 |
| \$\text{\$6.9}\$\$ \$48.0 \$\text{\$6.5}\$\$ \$47.7 \$\text{\$6.3}\$\$ \$47.3 \$47.1 \$\text{\$6.9}\$\$ \$65.2 \$\text{\$4.6}\$\$ \$\text{\$6.5}\$\$ \$\text{\$6.7}\$\$ \$\text{\$6.7}\$\$ \$\text{\$6.9}\$\$\$ \$\text{\$6.9}\$\$\$ \$\text{\$6.9}\$\$\$ \$\text{\$6.7}\$\$\$ \$\text{\$6.9}\$ | (6380 | 52.1 | m | 50.8 | å | 52,6 | 53.5 | 53,3 | 52,6 | 52.4 | 51.6 | | 49.2 | 4.64 | 51.4 | 51.6 | 51.7 | 52.3 | 50.0 | 47.8 |
| \$1.5 \$2.3 39.7 39.5 \$1.8 \$2.6 \$2.7 \$1.5 \$1.4 \$1.4 \$39.8 38.7 33.2 \$10.9 \$48.9 \$1.1 \$1.6 \$48. \$35.6 36.3 33.6 32.8 32.2 \$40.9 \$40.9 \$1.1 \$1.6 \$48. \$35.6 36.3 33.6 32.8 32.2 34.7 34.7 35.1 35.3 34.2 28.8 29.1 26.3 28.8 27.6 29.7 29.6 29.1 27.7 28.8 26.6 26.3 26.9 27.6 28.3 28.4 29.4 28.1 18.0 19.2 15.6 12.4 17.1 20.6 20.6 18.5 16.3 19.1 16.1 15.0 16.5 17.5 16.9 16.0 19.5 17.7 7.9 \$4.9 9.4 5.7 3.7 6.1 7.5 5.5 7.6 7.5 7. | 9098 | 46.9 | • | 45.6 | ŝ | | 40°3 | | 47.3 | 47.1 | 46.9 | | 44.4 | 44.6 | 46.3 | 46.5 | 46.7 | 47.3 | 46.3 | 42.6 |
| 35.6 36.3 33.6 32.8 34.6 36.1 36.2 35.5 34.8 35.7 33.7 32.8 33.2 34.7 34.7 35.1 35.3 34. 28.6 28.3 28.6 29.7 29.6 29.1 27.7 28.8 26.6 26.3 26.9 27.6 28.3 28.4 29.4 28. 18.0 19.2 15.6 12.4 17.1 20.6 20.6 10.5 16.3 19.1 16.1 15.0 16.5 17.5 16.9 10.0 19.5 17.7 7.9 4.9 9.4 5.7 3.7 6.1 7.5 5.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 | 10000 | 41.5 | | 39 | å | | 42.6 | 42.7 | 41.5 | 41.4 | 41.4 | 39.8 | | 39.2 | | 40.9 | 41.1 | 41.6 | 40.7 | 36.8 |
| 28.8 29.1 26.3 24.8 27.6 29.7 29.6 29.1 27.7 28.8 26.6 26.3 26.9 27.6 28.3 28.4 29.4 28. 18.0 19.2 15.6 12.4 17.1 20.6 20.6 18.5 16.3 19.1 16.1 15.0 16.5 17.5 16.9 18.0 19.5 17. 7.2 9.4 4.9 .1 6.6 11.6 11.7 7.9 4.9 9.4 5.7 3.7 6.1 7.5 5.5 7.6 7.5 7. | 12580 | 35.6 | | 33. | តំ | 34.6 | 36.1 | 36.2 | 35.5 | 34.8 | 35.7 | 33.7 | | 33.2 | 34.7 | 34.7 | 35.1 | 35.3 | 34.8 | 34.6 |
| 18.0 19.2 15.6 12.4 17.1 20.6 20.6 18.5 16.3 19.1 16.1 15.0 16.5 17.5 16.9 16.0 19.5 17. 7.2 9.4 4.9 .1 6.6 11.6 11.7 7.9 4.9 9.4 5.7 3.7 6.1 7.5 5.5 7.6 7.5 7. | 16000 | 28.8 | | 26. | 3 | 27.6 | 29.7 | 29.6 | 29.1 | 27.7 | 28.8 | 26.6 | | 26.9 | 27.6 | 26.3 | | 29.4 | 28.5 | 22.5 |
| (.2 9.4 4.9 .1 6.6 11.6 11.7 (.9 4.9 9.4 5.7 3.7 6.1 7.5 5.5 7.6 7.5 7.5 | 29900 | 18.0 | | 72 | សំ | 17.1 | 20.6 | 20.6 | 18.5 | 16.3 | 19.1 | 16,1 | | 16.5 | 17.5 | 16.9 | | 19.5 | 17.9 | 11.6 |
| | 25008 | 7.2 | | ÷ | | å | 11.6 | 11.7 | 7.9 | • • | 9° | 2.1 | | 6.1 | 7. 5 | 5.5 | | 7.5 | 7.2 | • |

| TABL | A-WEIGHTED AS A FUNCT | GHTED OVE | ERAL | SOUN | OUND LEVEL (DBA) LE AND DISTANCE | (DBA) TANCE | FROM SC | SOURCE | | | | | | | |) IDEN) OME | DENTIFICATIONS OMEGA 8.2 TEST 77-731-001 | FICATION: 8.2 77-731-001 | |
|--------------------|--------------------------|------------------------|--------------|---|--|----------------|----------------------------------|-----------------------------|-----------------|------|--|----------------|------------------------|-------|------|--|---|------------------------------------|-------------------|
| NOISE SO | SE SE | WBJECT 1 SUPPRESSOR | 8 | | OPERATIONS MILITA SINGLE GROUND | 1 0g | Y POMER 9 ENGINE RUNUP (SU | R 98.5% RPH (Suppressed) | X RPH ESSED) | | NETEOROLOGY TENP BAR PRE REL HUN DELTA N = | PRESS HUMIO | # 59 #29.92 * 78 | FHK | 9 | PROPERTY OF THE PARTY OF THE PA | AIRCRAFT OPERATION PROFILE V PAGE F2 | CODE CODE ERSION | 731 80104 A |
| (OISTANCE (FEET) | | 10 2 | 20 | 8 | 3 | 25 | 3 | = | ANGLE | • | (DEGREES) 90 106 | 27 | 921 | 136 | * | 151 | 168 | 178 | 18 |
| 200 | 88.9 | 90.6 | 87.7 | 87.8 | 88.7 | 89.4 | 89.2 | 86.3 86.2 | 85.8 | 87.1 | 86.7 | 86.5 | 86.6 | 07.5 | 88.1 | 88.2 | 88.3 | 9.00 | 96.6 |
| 315 | 84.6 | | 83.4 | | 82.2 | 65.1 | 85.0 | 94.0 | | 88.9 | 82.5 | 82.2 88.8 | 88.1 | 83.2 | 63.7 | 63.9 | 84.0 | 84.2 | 82.2 |
| 200 | 80.1 | 81.6 | 78.9 | 79.0 | 80.0 | 7.90 | 80.6 | 79.7 | 79.3 | 76.6 | 78.1 | 75.5 | 77.9 | 7.8.7 | 79.2 | 79.4 | 79.5 | 79.6 | 77.5 |
| 888 | 75.3 | | 74.1 | | 75.3 | 76.1 | 76.0 | 15.0 | 74.7 | 74.6 | | 73.1 | 73.2 | 73.9 | 7.4 | 74.6 | | 7.07 | 72.6 |
| 1250 | 72.9 | 74.2 | 71.7 | 71.8 | 72.9 | 73.6 | 73.6 | 72.6 | 72.2 | 71.6 | 71.1 | 78.6 | 70.7 | 71.4 | 71.8 | 72.1 | 72.3 | 72.1 | 70.8 |
| 1600 | 67.6 | 6.6.8 | 63.7 | 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 65.8 | 66.4 | 6.6.4 | 67.4 | 67.1 | 66.5 | 65.9 | 65.3 | 65.5 | 66.1 | 66.3 | 66.7 | | 66.6 | P. 4. |
| 3150 | 61.7 | 52.6 | 57.4 | 57.4 | 61.9 | 62.6 59.3 | 62.5 | 61.7 | 61.4 58.2 | 57.3 | 56.0 | 59.3 | 8 ° 8 | 56.0 | 56.2 | 56.5 | | 60.4 | 56.3 |
| 000 | 50.0 | 55.6 | 53.8 6.04 | 53,64 | 55.1 | 55.6 | 55.5 | 54.6 | 54.6 | 53.6 | 52.6 | 51.9 | 52.1 | 52.5 | 52.7 | 53.0 | 53.3 | 52.6 | 50.3 |
| 6300 | 46.1 42.1 | 47.3 | 45.5 | 45.5 | 46.8 42.7 | 47.2 43.1 | 67.4 63.1 | 46.4 | 46.2 42.2 | 45.8 | 4 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | 43.1 39.3 | 43°2 | 43.7 | 43.0 | 4.0 | ;; | 43.5 39.6 | 41.3 |
| 00807) | 37.7 | 38.6 | 37.6 | 36.8 | | 36.6 | 36.6 | 38.1 | 37.9 | 37.2 | 36. 3 | 35.2 | 35.4 | 35.9 | 36.1 | 36.2 | 36.7 | 36.1 | 33.3 |
| (12500 | 33° 1 | 33.7 | 32.1 26.8 | 31.9 26.5 | 8 % 8 % 8 % | 34.8 | 34.0 | 33.4 | 33.2 26.0 | 32.6 | 31.9 | 3 8. 9 | 31.0 26.3 | 31.6 | 31.8 | 31.9 | 32.5 | 31.6 | 24.3 |
| 25000 | 22.5 | 22.6 | 21.1 | 28.8 | 22.3 | 23.4 | 23.5 | 22.8 | 22.5 | 22.8 | 21.9 | 21.1 | 21.2 | 22.1 | 22.2 | 22.4 | 23. E | 22.4 | 19.4 |
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| AIRCRAFT CODE 731 OPERATION CODE 86184 PROFILE VERSION A 28 NOV 79 PAGE G2 | 160 170 180 | 7 88.5 | 86.4 84. | ~ | . | ۰ م | 72.5 | | 1 70.0 | | | | | | 5 E . S | | | | | | 19.4 | |
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| | 160 | ٠.٠ | _ | | • | 2; | | | 72. | 69.4 | 66.6 | 63.7 | 60.4 | 56.7 | 52.6 | 43.5 | 39.8 | 36.0 | 31.6 | 27.3 | 22.4 | 17.2 |
| PROF PAGE | • | | 97.6 | 35.4 | 2.5 | 910 | 0 0 | | 73.7 | 72.1 | 58.3 | 55.5 | 52.3 | 28.7 | V | | 6.04 | 36.7 | 32.5 | 6.72 | 23.0 | 17.6 |
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| F HX | 130 | 88.7 | 96.6 | 9 6 | 85.0 | | 75.1 | | 72.6 | 70.8 | 67.2 | 64.4 | 61.2 | 57.6 | 20°04 | 44. | 40.5 | 35.9 | 31.6 | 27.1 | 22.0 | 16.7 |
| . 8 | 120 | 87.1 | 85.0 | 82.9 | 80.7 | 1004 | 73.7 | : | 71.3 | 68.7 | 66.0 | 63,3 | 61.0 | 56.5 | 52.5 | 63.5 | 39.5 | 35.4 | 31.0 | 26.3 | 21.2 | 15.8 |
| S S S | 97 | 16.5 | 14. G | 2.5 | | 9 | 0 M | • | 9.0 | _ | m | S | 1 | | | | 10 | 5.2 | 6.0 | 5.5 | 1.1 | .5.7 |
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| METER | GREE | | €) | | | | | | | | | | | | | | | | | | | |
| | | 88.6 | 86.5 | 84.3 | 82.2 | 900 | 7.57 | | 73.0 | 70.5 | 67.9 | 65.2 | 62.1 | 58.7 | 7.0 | 45.5 | 41.5 | 37.2 | 32.8 | 28.0 | 22.8 | 17.2 |
| K RPH ESSED) | ANGL | 88.9 | 86.8 | 94.7 | 82,5 | 500 | 75.7 | • | 73.2 | 70.7 | 58.1 | 65.4 | 4 29 | 29.5 | 75.4 | 46.6 | 45.4 | 37.9 | 33,2 | 28.0 | 22.5 | 16.6 |
| 98.53 SUPPRE | 67 | 89.6 | 86.9 | 94.7 | 82.6 | 4.00 | 75.7 | | 73.3 | 70.8 | 69.1 | 65.4 | | 29.4 | 55.4 | | 42.6 | 38.1 | 33.4 | 26.3 | 22.8 | 16.9 |
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| a z | 9 | 8.7 | 9. | * | ~ | 1 C | _ M | , | σ. | | | _ | a | | - - | | ~ | ~ | m | | m | N |
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| UPPRES | 97 | 90.6 | 88.4 | 86.2 | 83.9 | 2010 | 76.7 | • | 74.2 | 71.5 | 68.6 | 62.9 | 62.8 | 50.0 | 55.6 | 67.3 | 43.2 | 36.6 | 33.7 | 28.4 | 22.6 | 16.5 |
| CE/SU SISE SI 14 | 9 | 89.5 | 87.4 | 85.2 | 83.0 | 58. | * ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | 5 | 73.5 | 70.9 | 68.2 | 65.4 | 62,3 | 56.0 | 7 4 | 66.3 | 42.2 | 37.7 | 33.1 | 28.0 | 22.5 | 16.7 |
| ISE SOUF | STANCE FEET) | | | | 000 | | 200 | ; | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | | 5300 | 9000 | | | | | |
| | NOISE SOURCE/SUBJECT: F-4 NOISE SUPPRESSOR (MILITARY POWER 90.5% RPH) TEMP = 59 AF32A-14 (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 | SOURCE/SUBJECT: (OPERATION:) MCTECROLOGY: 59 F 4 NOISE SUPPRESSOR (MILITARY POWER 98.5% RPH) TEMP = 59 F 5324-14 (SINGLE ENGINE) BAR PRESS =29.9% IN | NOISE SOURCE/SUBJECT: F-4 NOISE SUPPRESSOR (NILITARY POWER 98.5% RPH) TEMP = 59 F AF32A-14 | NOISE SOURCE/SUBJECT: F-4 NOISE SUPPRESSOR (SINGLE ENGINE) TEMP = 59 F AF3ZA-14 (SINGLE ENGINE) TEMP = 59 F AF3ZA-14 (SINGLE ENGINE) REL HUMID = 70 X (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 X (GROUND RUNUP (SUPPRESSED)) DELTA N = 0.0 DB DISTANCE (FEET) 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 200 69.5 90.6 67.7 87.8 88.7 90.4 89.2 89.0 88.9 68.6 66.7 66.5 87.1 86.7 69. 250 67.4 68.4 85.5 65.6 86.6 88.2 87.1 86.9 86.9 86.5 94.6 94.3 85.0 96.6 87. | NOISE SOURCE/SUBJECT: F-4 NOISE SUPPRESSOR (SINGLE ENGINE | MOISE SOURCE/SUBJECT: OPERATION: OPERATION: DELTARY POWER 98.5% RPH TEMP = 59 F | F-4 NOISE SURCE/SUBJECT: NOISE SOURCE/SUBJECT: OPERATION: TEMP = 59 F | F-4 NOISE SURCE/SUBJECT: F-4 NOISE SUPPRESSOR | F-4 NOISE SUPPRESSOR (MILITARY POWER 98.5% RPH) TEMP = 59 F AF3ZA-14 | F-4 NOISE SURCE/SUBJECT: F-4 NOISE SUPPRESSOR | F-4 NOISE SURCE/SUBJECT: F-4 NOISE SUPPRESSOR | F-4 NOISE SURCE/SUBJECT: Control of the control | F-4 NOISE SUPPRESSOR (MILITARY POWER 98.5% RPH) HETEOROLOGY I FF4 NOISE SUPPRESS = 29.92 IN HG (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 % IN HG (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 % IN HG (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 % IN HG (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 % IN HG (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 % IN HG (GROUND ENGINE SED) DELTA N = 0.0 DB (DB (GROUND ENG | NOISE SUURGE/SUBJECT: PERATION: HILTARY POWER 90.5% RPH TEMP FERS = 29.92 IN HG | Fe-t NOISE SUBPRESSOR (MILITARY POWER 98.5% RPH) TEMP RESS =29.92 IN HG SIGNAL GY TEMP RESS = 29.92 IN HG SIGNAL GY TEMP RESS TEMP RESS = 29.92 IN HG SIGNAL GY TEMP RESS TEMP | FEL NOISE SUMPRESSOR (MILITARY POWER 98.5% RPH) HERMOLOGY! E 59 F F A NOISE SUMPRESS R29.92 IN HG AF32A-14 | FEANOISE SUPPRESSOR (MILTARY POMER 98.5% RPH) TERM TEND | MAISE SUNCE/SUBJECT: (| MATSE SURPRESSOR (OPERATION | AFIZA-14 AFIZA- | AF32A-14 TEMPRESSOR (SINGLE ENGINE 90.5X PH) METCOROLOGY I FAR NOTSE SUPPRESSOR (SINGLE ENGINE) METCOROLOGY I TEMPRESSOR (SINGLE ENGINE METCOROLOGY I TEMPRESSOR) METCOROLOGY I TEMPRESSOR) METCOROLOGY I TEMPRESSOR) METCOROLOGY I TEMPRESSOR METCOROLOGY I TE | MUSISE SUPPRESSOR (SINGLE ENGINE) HETCOROLOGY EACH
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| OMEGA TEST 71 RUN 03 AIRCRAF OPERATI PROFILE 28 NOV | 150 | 86 | 92 | 40 | 9 9 7 | 90 | 86 | 85 | 83 | 82 | 30 | 3 6 | 77 | 7. | 78 | 76 | 76 | 76 | 92 | 72 | 68 | 63 | 21 | 96 |
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| WE R SUPPRESSE | 40 | 87 | 87 | σ ; | ອາ ດ 20 ແ | , w | 88 | 87 | 87 | 94 | 4 | 50 G | 0 4 | 9 6 | 90 | 7.8 | 92 | 75 | 75 | 71 | 69 | 63 | 22 | 66 |
| ! Q~ ! | 99 | 88 | 87 | 90 | & & | 8 | 94 | 83 | 88 | 82 | ۳. و | # : ** | * * | 9 0 | 79 | 92 | 7,4 | 92 | 73 | 11 | 9 | 62 | 26 | 96 |
| SURE LEVEL (DB) OPERATION: AFTERBURNER F SINGLE ENGINE GROUND RUNUP | 20 | 96 | 85 | 60 (| 0 4 V 1 | 90 | 83 | 82 | 96 | 83 | 8 | - C - C - C | 2 0 |) c) | 79 | 11 | 75 | 11 | 72 | 73 | 7.0 | 29 | 60 | 46 |
| JE LEVEL PERATION! AFTERBUR SINGLE GROUND 3 | 9 | 69 | 82 | S (| ا د م | 87 | 63 | 83 | 82 | 80 | 62 | 1 6 | 0 M | 2 | 62 | 78 | 92 | 11 | 75 | 73 | 69 | 62 | 23 | 96 |
| C OPER C SI | 30 | 88 | 85 | 95 | -1 4 80 8 | 82 | 78 | 82 | 79 | 79 | 77 | C a |) c | 7.6 | 79 | 7.8 | 92 | 79 | 16 | 73 | 70 | 99 | 9 | 76 |
| 2 M | 20 | 88 | 90 | 6, | 2 3 | 5 | 80 | 79 | 79 | 11 | 92 | 9 6 | ν σ - Δ | 12 | 11 | 77 | 92 | 77 | 73 | 70 | 6 8 | | 23 | 93 |
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| NOKHALIZEU SU 1/3 OCTAVE BA DISTANCE = 2 SOURCE/SUBJECT & NOISE SUPPRESSOR A-14 | 9 | 89 | 83 | | 7 C | 8 0 | 91 | 96 | 82 | 81 | 85 | 19 | 2 5 | 12 | 92 | 75 | 74 | 75 | 75 | 20 | 29 | 63 | 28 | 95 |
| EMUIM I | ER. | | | | | | | | | | | | | | | | | | | | | | | |
| | BAND CENTER FREQ (HZ) | 20 | 63 | 9 | 2 C | 166 | 200 | 52 0 | 315 | 904 | 500 | 200 | | 250 | 20.05 | 2000 | 2500 | 150 | 3004 | 2000 | 6300 | 8000 | 9000 | OVERALL |
| TABLE NOISE F-4 AF32 | AR | | | | | , | | | | ~ | -7 1 | ٠ - | - | 1 7 | 7 | 21 | 2 | Ř | ¥ | š | ģ | 80 | 70 | OVE |

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| SUPPRESSOR (GROUND RUNUP (SUPPRESSED) NETEROROLGOTI | SOURCE/SUB-LECT: 4 NOISE SUPPRESSOR 5 CROUND RUNUP (SUPPRESSED) 6 CROUND RUNUP (SUPPRESSED) 7 CROUND RUNUP (SUPPRESSED) 8 104.3 103.8 104.5 106.2 106.3 106.6 106.4 106.6 105.3 104.5 101.9 97.4 99.2 99.4 99.7 99.7 99.7 99.8 104.5 101.9 97.6 99.6 99.7 99.7 99.7 99.8 101.6 | | PERCE: | PERCEIVED NOISE LEVE AS A FUNCTION OF ANG | SE L | _ <u>"</u> | H | | FROM S | SOURCE | ; | | | | | ; | 1 |) IDENTI) OMEGA) TEST | DENTIFICATION ONEGA 6.2 TEST 77-731- | ICATION: 6.2 7-731-001 | |
|---|--|-----------------------|-------------------------|--|---------|------------|------|-----------------------------------|---------------------------|------------|-------------------|----------|---------------------------------------|------|------|-------|-------|---------------------------------|--------------------------------------|--------------------------------|---------------------|
| TSTANCE 10 20 30 40 50 60 70 30 10 110 120 130 140 159 150 150 120 130 140 150 | STANCE 10 | | RCE/S 101 SE 1-14 | UB JECT SUPPRE | Ř | | | TIONS FTERBU INGLE ROUND | RNER P ENGINE RUNUP | OWER | ESSED) | * 6 | ETEORO TEM BAR BAR ELTA N | SS | #29. | F H X | و | AIR OPE OPE OPE OPE | CRAFT RATION FILE V NOV 79 | CODE N CODE VERSION 9 | 731 00103 A |
| 186.1 108.7 102.2 103.9 109.1 186.6 106.6 105.3 106.2 106.1 106.2 106.2 106.5 | 186.3 103.8 104.5 106.2 106.5 106.6 106.4 106.6 105.3 104.2 104.9 101.9 101.9 101.9 102.1 108.7 102.2 103.9 104.1 104.4 104.2 104.7 103.0 101.9 101.9 101.9 99.6 99.6 99.5 96.6 99.5 95.6 99.2 99.2 99.2 99.4 99.7 3 99.6 100.2 99.6 99.6 99.6 99.6 99.6 99.6 99.6 99 | (DISTANC ((FEET) | • | 97 | 20 | | 3 | 50 | | 9,4 | ANGL! | 300 | REES) 100 | 110 | 128 | 130 | 140 | 150 | 160 | 178 | 160 |
| 102.1 100.7 102.2 103.9 104.1 104.4 104.7 103.0 101.9 101.6 102.6 104.0 104.3 104.2 103.3 104.0 103.3 104.0 102.6 104.0 102.6 101.0 102.1 102.0 102.4 102.0 102.6 102.6 102.0 102.6 102.0 | 102.1 100.7 102.2 103.9 104.1 104.6 104.2 104.7 103.0 1011.9 1011.9 99.6 99.6 99.6 99.6 99.6 99.6 99.6 | 500 | ; | | 104.5 | 106 | M | | | 40 | 105.3 | | _ | • | | | 10 | 10 | 106.7 | 105.1 | 104.2 |
| 97.4 95.6 97.5 99.6 1010.2 90.6 1010.2 97.6 97.2 97.6 97.2 97.6 97.2 97.6 97.2 97.6 97.2 97.6 97.2 97.4 97.2 97.2 97.4 97.2 97.2 97.4 97.2 97.2 97.4 97.2 97.2 97.4 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2 | 95.0 95.0 97.5 94.1 91.1 91.1 97.1 95.0 140.0 140.0 99.0 99.0 99.0 99.0 99.0 99.0 99.0 | 1 250 | 192.1 | | 102.2 | 103 | - | | | ~ . | 103.0 | . | | ا ب | | | ~ | M (| 104.4 | 102.8 | 101.9 |
| 94.9 93.5 95.8 95.8 96.7 96.9 977.3 97.5 97.6 96.0 94.7 94.8 95.5 97.0 97.2 97.1 96.2 97.8 92.8 92.8 92.8 92.8 92.8 92.8 92.8 92 | 94.9 93.5 95.8 96.7 96.9 97.3 97.5 97.9 96.0 94.7 94.8 92.3 910.8 92.3 94.1 94.7 97.9 97.5 97.9 96.0 94.7 94.8 92.3 910.8 92.3 94.1 94.7 95.0 92.5 93.5 92.2 92.8 92.6 68.0 89.6 89.1 89.6 89.1 97.9 97.5 93.5 92.2 92.8 92.6 83.8 91.8 92.8 93.5 92.2 92.8 93.5 91.8 92.8 93.5 92.2 92.8 93.5 91.8 93.8 93.8 93.8 93.8 93.8 93.8 93.8 93 | CTC) | 97.6 | | V . V P | | 0 4 | | | ٠. | 98.6 | | | 9 O | | | שו ע | | 195.1 99.8 | 48.2 | 97.3 |
| 92.3 99.8 92.3 94.1 94.3 94.7 95.0 95.5 93.5 92.2 92.3 92.9 94.4 94.5 94.5 94.5 93.6 94.6 94.6 94.5 94.5 93.6 94.5 94.6 94.5 94.5 94.5 94.5 94.6 94.5 94.5 94.5 94.5 94.5 94.5 94.5 94.5 | 92.3 99.8 92.3 94.1 94.3 94.7 95.0 95.5 93.5 92.2 92.8 89.6 89.6 89.3 94.5 91.9 92.5 93.5 93.5 92.2 92.8 89.6 89.6 89.3 94.5 91.9 92.5 93.0 91.0 89.6 89.6 89.8 89.8 89.8 89.8 89.8 89.8 | 200 | 94.9 | | 95.0 | 96 | . 6 | | | . 6 | 96.0 | | | 95.5 | | | | | 97.3 | 95.7 | 94.9 |
| 86.7 68.6 68.6 69.5 91.5 91.9 92.5 93.6 91.0 69.6 69.6 90.4 91.6 91.9 91.8 91.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0 | 86.7 85.1 86.6 88.3 91.5 91.9 92.5 93.0 91.0 89.6 89.8 85.7 85.1 85.6 88.3 85.8 85.0 83.0 81.9 83.4 85.1 85.5 86.0 86.8 87.2 85.3 83.8 83.8 83.8 83.8 81.9 83.4 85.1 85.5 86.0 85.8 83.9 84.1 62.3 81.5 81.8 77.6 77.6 77.9 75.3 77.9 78.8 77.7 81.8 77.3 77.3 77.3 77.3 77.3 77.4 77.9 77.4 77.9 77.4 77.9 77.4 77.9 77.4 77.9 77.3 77.3 77.5 77.9 77.4 77.9 77.3 77.3 77.3 77.5 77.9 77.4 77.9 77.3 77.3 77.5 77.9 77.8 77.9 77.3 77.3 77.5 77.9 77.8 77.9 77.9 77.3 77.5 77.9 77.8 77.9 77.9 77.1 77.9 77.9 77.1 77.9 77.9 | (639 | 92, 3 | 90 | 92.3 | 36 | m | | _ | ın | 93,5 | | _ | 92.9 | | | | م | 94.7 | 93.2 | 92.2 |
| 86.7 85.1 86.6 88.3 88.6 89.1 89.8 98.3 88.8 85.6 87.6 86.7 89.1 89.1 89.1 89.3 85.5 85.8 83.8 83.9 84.5 85.7 86.5 86.7 86.2 86.3 85.5 85.8 83.8 83.9 84.5 85.7 86.5 85.7 86.2 86.3 85.5 85.8 85.8 85.8 85.8 85.8 85.8 85 | 86.7 05.1 06.6 08.3 08.6 09.1 09.6 90.3 08.2 06.9 05.8 03.8 03.8 03.8 01.9 03.4 05.1 05.5 06.0 05.6 07.2 05.3 03.6 03.8 03.8 01.9 03.4 05.1 02.3 05.0 05.9 05.9 05.9 05.9 05.3 05.6 05.8 05.8 05.8 05.8 05.8 05.8 05.8 05.8 | 900 | 89.6 | 99 | 89.6 | 91. | S. | | | _ | 91.0 | | | 90.4 | | _ | • | 0 | 91.9 | 90.5 | 99.4 |
| 83.8 01.9 35.4 05.1 05.2 05.1 05.2 05.1 05.2 05.3 05.8 05.9 05.2 05.2 05.2 05.2 05.2 05.3 05.8 05.8 05.8 05.8 05.8 05.8 05.8 05.8 | 63.6 76.9 33.6 65.1 65.5 65.1 63.6 67.2 65.3 63.6 63.6 67.2 67.2 67.3 67.2 67.3 67.2 67.3 67.2 67.3 67.2 67.3 67.3 67.3 67.4 67.4 77.6 77.9 76.3 77.9 78.8 79.7 60.7 60.6 79.1 77.0 77.4 77.6 77.9 72.4 77.9 77.3 73.5 73.5 73.5 73.5 73.5 73.5 73.5 | 9091 | u | | 4 | • | | 9 | 9 | • | 2 | 9 | | | 4 | • | • | • | • | • | |
| 60.6 70.5 60.0 81.6 62.3 82.9 83.9 84.1 62.3 80.5 80.9 61.2 62.6 63.2 63.3 62.5 62.5 77.6 77.9 77.9 77.9 77.9 77.9 77.9 77.9 | 60.6 76.5 80.0 81.6 62.3 82.9 83.9 84.1 62.3 80.5 80.5 77.6 77.9 75.3 77.9 78.8 79.7 80.7 80.6 79.1 77.0 77.1 77.6 77.9 72.4 77.9 77.3 73.5 73.5 73.5 73.5 73.5 73.5 73.5 | 1250 | å M | 81. | 9 9 9 | 'n | | 86.0 | 86.6 | 87.2 | 85,4 | 83.8 | 0 0 0 0 0 0 | | 85.7 | 86.7 | 46. A | | 85.8 | 8 | 83.4 |
| 77.6 74.9 76.3 77.9 78.0 79.7 88.7 88.1 77.3 77.3 77.7 77.9 79.4 88.8 88.8 88.8 79.3 79.3 79.4 78.1 77.4 77.9 79.4 88.8 88.8 79.3 79.3 79.3 79.3 79.4 78.2 78.4 78.2 78.4 78.3 78.5 78.7 74.0 75.4 75.4 75.4 75.4 75.4 75.4 75.4 75.4 | 77.6 74.9 76.3 77.9 78.8 79.7 88.7 88.8 79.1 77.0 77.7 74.2 72.4 77.0 77.1 77.1 77.1 77.1 77.2 72.4 77.2 72.4 77.2 72.5 73.5 73.5 73.5 73.5 73.5 73.5 73.5 73 | 1600 | 80.8 | 78. | 80.0 | 81. | | 82.9 | 83.9 | 84.1 | 82.3 | 80.5 | 90.9 | 61.2 | 82.6 | 63.2 | 63.3 | 62.5 | 82.8 | 61.9 | 80.2 |
| 74.1 70.9 72.4 74.2 75.2 75.8 76.9 77.3 75.3 73.5 73.7 74.0 75.4 76.9 76.1 75.4 75.4 75.4 75.6 56.5 68.2 78.8 71.4 72.7 73.2 71.3 69.6 69.5 69.5 69.5 71.9 71.6 71.7 78.9 71.6 65.5 65.5 65.8 65.3 65.9 66.9 66.8 65.3 65.8 65.3 65.9 66.9 66.8 65.3 61.3 61.3 61.3 61.3 61.3 61.3 61.3 61 | 74.1 70.9 72.4 74.2 75.2 75.8 76.9 77.3 75.3 73.5 73.5 73.6 70.6 66.8 65.2 65.8 65.3 65.3 65.2 65.8 65.3 65.3 65.2 65.8 65.3 65.3 65.2 65.3 65.3 65.2 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 | 2000 | 77.6 | 74. | 76.3 | 77. | | 79.7 | 80.7 | 80.8 | 79.1 | 77.0 | 77.7 | 77.9 | 79.4 | 80.0 | 9.00 | 79.3 | 79.6 | 78.7 | 77.0 |
| 70.6 66.5 68.2 78.8 71.4 72.7 73.2 71.3 69.6 69.5 69.5 70.9 71.6 71.7 78.9 71.6 65.6 65.5 61.6 65.5 61.8 62.8 65.3 66.9 66.9 66.8 65.2 64.9 64.4 66.0 66.5 66.7 66.8 66.7 66.8 66.4 56.8 56.2 62.8 62.2 62.1 63.5 62.2 62.1 63.5 62.2 62.1 63.5 62.2 62.1 63.5 62.2 62.1 63.5 63.3 63.3 63.3 63.3 63.3 63.3 63.3 | 70.6 66.5 60.2 70.8 71.4 72.7 73.2 71.3 69.6 69.65.5 61.8 65.8 65.3 66.9 66.9 68.2 70.8 71.3 69.6 69.65.5 61.8 61.8 63.8 65.3 66.9 66.9 68.2 66.8 65.2 64.6 65.2 64.8 65.2 64.8 65.2 64.8 65.3 69.4 65.9 66.8 65.3 61.4 65.4 61.4 62.8 62.3 63.3 69.0 66.9 65.2 64.8 60.7 45.7 45.7 45.5 50.2 52.2 52.2 53.8 54.6 52.3 50.5 50.5 50.8 63.8 63.2 35.6 44.2 46.9 46.7 40.7 40.7 49.6 47.1 44.9 44.8 33.8 24.9 28.3 29.5 32.7 33.8 36.7 38.1 34.8 31.9 32.2 25.2 13.9 16.8 18.5 22.1 25.2 29.8 30.2 26.6 22.3 23.4 11.6 3.8 5.3 7.5 7.2 12.1 16.2 19.6 13.3 12.6 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8 | 2508 | 74.1 | 70. | 72.4 | 7. | | 75.8 | 76.9 | 77.3 | 75.3 | 73.5 | 73.7 | 74.0 | 75.4 | 76.9 | 76.1 | 75.4 | 75.6 | 74.8 | 73.1 |
| 65.5 61.8 63.8 65.3 66.9 66.9 68.2 68.9 66.8 65.2 64.9 64.4 66.8 66.5 66.7 66.8 66. 66.8 66.4 66.8 66.3 66.8 66.8 66.8 66.8 66.8 66.8 | 65.5 61.6 63.6 65.3 66.9 66.9 66.2 66.9 66.6 65.2 64.6 61.4 61.2 56.8 61.4 62.5 62.8 61.4 61.4 62.5 62.8 62.8 61.4 61.4 62.5 62.8 61.4 61.4 61.4 61.4 61.4 61.4 61.4 61.4 | 3120 | 70.6 | | 66.2 | 7. | | 71.4 | 72,7 | 73.2 | 71.3 | 9•69 | 69.5 | 69.5 | 70.9 | 71.6 | 71.7 | 70.9 | 71.4 | 70.4 | 68.9 |
| 60.4 56.8 58.9 60.4 62.2 62.1 63.5 64.2 62.0 60.4 60.0 59.4 60.0 61.3 61.3 61.3 61.5 61. 51. 55.1 51.2 60.5 61. 51. 55.1 51. 51. 51. 51. 51. 51. 51. | 60.4 56.8 56.9 60.4 62.2 62.1 63.5 64.2 62.0 60.4 60. 55.1 51.2 53.6 55.2 56.9 56.8 56.1 50.4 60.4 60. 55.1 51.2 53.6 55.2 54.0 50.7 45.7 45.5 50.2 52.2 53.8 54.6 52.3 50.5 50.5 50. 50.7 45.0 33.2 35.6 47.1 44.9 44. 41.3 36.6 33.2 35.6 37.2 40.3 40.8 43.2 44.4 41.3 36.6 38. 33.8 24.9 26.3 29.5 32.7 33.8 36.7 36.1 34.8 31.9 32. 25.2 13.9 16.8 18.5 22.1 25.2 29.8 30.2 26.6 22.3 23. 11.6 3.0 5.3 7.5 7.2 12.1 18.2 19.6 13.3 12.6 10. | 004 | 65,5 | | 63.6 | 65 | | 66.9 | 68.2 | 68.9 | 66. 8 | 65.2 | 64.9 | | 66.0 | 66.5 | 66.7 | 99 | 66.7 | 65.4 | 64.3 |
| 95.1 51.2 53.6 55.2 56.9 56.8 58.3 59.8 56.9 55.2 54.7 54.8 55.4 55.9 55.8 55.8 55.8 56.8 56.1 56.7 54.1 51.2 51.6 55.4 51.0 56.1 56.1 56.1 56.1 56.2 55.2 55.2 55.2 55.6 56.5 56.4 51.0 56.1 51.2 51.5 51.6 56.4 51.0 51.1 51.2 51.5 51.6 56.4 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0 | 59.1 51.2 53.6 55.2 56.9 56.8 56.3 59.8 56.9 55.2 54. 58.7 45.7 46.5 58.2 52.2 52.2 53.8 54.6 52.3 50.5 50.5 45.8 39.9 42.6 44.2 46.9 46.7 40.7 49.6 47.1 44.9 44. 43.8 24.9 28.3 29.5 32.7 33.8 36.7 38.1 34.8 31.9 32. 25.2 13.9 16.8 18.5 22.1 25.2 29.8 30.2 26.6 22.3 23. 11.6 3.8 5.3 7.5 7.2 12.1 18.2 19.6 13.3 12.6 10. | 2000 | 60.4 | 2 | | 9 | | 62.1 | 63.5 | 64.2 | 62.0 | 68.4 | 9.0 | | 60.8 | 61.3 | 61.3 | 60.5 | 61.7 | \$. 09 | 59.3 |
| 45.6 39.9 42.6 44.2 46.9 46.7 48.7 49.6 47.1 44.9 44.8 43.9 46.1 46.5 46.6 45.8 46. 45.6 33.2 35.6 37.2 48.3 48.3 48.4 41.3 36.8 38.5 38.4 48.6 41.8 48.7 39.6 41. 33.8 24.9 28.3 29.5 32.7 33.8 36.7 34.8 31.9 32.1 33.1 34.6 38.5 38.4 48.6 34.2 34.1 33.3 35.6 41. 25.2 13.9 16.8 18.5 22.1 25.2 29.8 38.2 26.6 22.3 23.3 22.0 25.9 25.7 26.5 27.6 27. 34.1 13.1 13.1 13.1 13.1 13.1 13.1 13. | 45.6 39.9 42.6 44.2 46.9 46.7 46.7 49.6 47.1 44.9 44. 43.6 33.2 35.6 37.2 48.3 48.8 43.2 44.4 41.3 36.6 38. 33.8 24.9 28.3 29.5 32.7 33.6 36.7 38.1 34.8 31.9 32. 25.2 13.9 16.8 18.5 22.1 25.2 29.8 38.2 26.6 22.3 23. 11.6 3.8 5.3 7.5 7.2 12.1 18.2 19.6 13.3 12.6 18. | | 77°1 | 7 | 920 | , c u | | 7 0 0 0 0 | 700 | 77.0 | 0 0 0 0 0 0 | 22.0 | 74.0 | | 72.4 | | 55.0 | 700 | 20.4 | 00 U | 930 |
| 45.8 39.9 42.6 44.2 46.9 46.7 48.7 49.6 47.1 44.9 44.8 43.9 46.1 46.5 46.6 45.8 46. 45.8 46.1 46.5 46.6 45.8 46. 48.8 33.2 33.2 33.2 33.5 36.4 48.5 36.5 41.8 48.7 39.6 41. 33.8 33.5 35.4 48.6 41.8 48.7 39.6 41. 33.8 23.8 23.8 24.1 33.8 24.1 33.8 33.8 33.8 25.2 34.1 33.8 33.8 33.8 33.8 33.8 33.8 33.8 33 | 45.8 39.9 42.6 44.2 46.9 46.7 48.7 49.6 47.1 44.9 44. 43.8 33.2 35.6 37.2 48.3 48.8 43.2 44.4 41.3 38.8 38.8 33.8 25.9 25.9 28.3 29.5 32.7 33.8 36.7 38.1 34.8 31.9 32. 25.2 13.9 16.8 18.5 22.1 25.2 29.8 38.2 25.6 22.3 23. | | | | | • | | , | | | | • | • | 1 | 1 | | | | | • | |
| 43.6 33.2 35.6 37.2 40.3 40.6 43.2 44.4 41.3 36.8 38.5 38.4 48.6 41.8 40.7 39.6 41. 33.8 24.9 28.3 29.5 32.7 33.6 36.7 38.1 34.8 32.1 31.1 34.6 38.2 34.1 33.8 38. 25.2 13.9 16.8 18.5 22.1 25.2 29.8 38.2 26.6 22.3 23.3 22.0 25.9 25.7 26.5 25.6 27. 11.6 3.8 5.3 7.5 7.2 12.1 18.2 19.6 13.3 12.6 18.8 7.5 12.7 13.8 14.9 14.1 15. | 40.6 33.2 35.6 37.2 40.3 40.8 43.2 44.4 41.3 36.6 38.8 33.8 25.9 25.9 26.3 29.5 32.7 33.6 36.7 36.1 34.8 31.9 32.25.2 13.9 16.8 18.5 22.1 25.2 29.8 30.2 26.6 22.3 23.11.6 3.8 5.3 7.5 7.2 12.1 18.2 19.6 13.3 12.6 10. | 10000 | 45.8 | 39. | 42.6 | | 46.9 | 46.7 | 48.7 | 49.6 | 47.1 | 6.44 | 44.8 | | 46.1 | 46.5 | | 45.8 | 46.9 | 45.5 | 43.5 |
| 33.8 24.9 28.3 29.5 32.7 33.8 36.7 38.1 34.8 31.9 32.1 31.1 34.6 34.2 34.1 33.3 35.3 25.2 25.2 13.9 16.8 18.5 22.1 25.2 29.8 38.2 26.6 22.3 23.3 22.1 25.9 25.7 26.5 25.6 27.4 11.6 3.8 5.3 7.2 12.1 12.1 18.2 19.6 13.3 12.6 18.8 7.5 12.7 13.8 14.9 14.1 15. | 33.8 24.9 28.3 29.5 32.7 33.8 36.7 38.1 34.8 31.9 32. 25.2 13.9 16.8 18.5 22.1 25.2 29.8 38.2 26.6 22.3 23. 11.6 3.8 5.3 7.5 7.2 12.1 18.2 19.6 13.3 12.6 18. | (12500 | 43.0 | 33. | 35.6 | 2 | 40.3 | 40.8 | 43.2 | 4.4.4 | 41.3 | 38.8 | 38.5 | | 40.6 | 41.0 | 40.7 | 39.6 | 41.4 | 39.6 | 37.5 |
| 25.2 13.9 16.8 18.5 22.1 25.2 29.8 38.2 26.6 22.3 23.3 22.0 25.9 25.7 26.5 25.6 27. 11.6 3.8 5.3 7.5 7.2 12.1 18.2 19.6 13.3 12.6 18.8 7.5 12.7 13.8 14.9 14.1 15. | 25.2 13.9 16.8 18.5 22.1 25.2 29.8 38.2 26.6 22.3 23. 11.6 3.8 5.3 7.5 7.2 12.1 18.2 19.6 13.3 12.6 18. | 16050 | 33.6 | 24. | 28.3 | å | 32.7 | 33.6 | 36.7 | 38.1 | 34.8 | 31.9 | 32.1 | 31.1 | 34.6 | 34.2 | 34.1 | 33.3 | 35.1 | 32.5 | 30.4 |
| 11.6 3.0 5.3 7.5 7.2 12.1 18.2 19.6 13.3 12.6 18.8 7.5 12.7 13.8 14.9 14.1 | 11.6 3.0 5.3 7.5 7.2 12.1 18.2 19.6 13.3 12.6 10. | 20000 | 25.2 | 13. | 16.8 | ÷ | 22.1 | 25.2 | 29.8 | 30.2 | 26.6 | 22.3 | 23,3 | 22.0 | 25.9 | 25.7 | 26.5 | 25.6 | 27.4 | 25.5 | 21.7 |
| | | 25060 | 11.6 | m | S. | 7.5 | 7.2 | 12,1 | 10.2 | 19.6 | 13,3 | 12.6 | 10.0 | 7.5 | 12.7 | 13.8 | 14.9 | 14.1 | 15.1 | 13.9 | 13.0 |

| AC A G | | | | | | | | | | | • | | | | OMEGA | • | .2 | |
|--|---|--------------|----------------|-------|--|--------|----------------------|--------------|-------|-----------------|---------|--------------|--------------|---|---------|--|----------------------------|-----------------|
| | FUNCTION | 9 | ANGLE A | 2 | DISTANCE | FROM S | SOURCE | | | | , | | ٠ | 4 |) TES | T 77-7 | 31-001 | |
| (NOISE SOURCE/SU F-4 NOISE S AF32A-14 | SOURCE/SUBJECT! 4 NOISE SUPPRESSOR 32A-14 | å | | OPERA | | 4 2 | ONER (SUPPRESSED) | ESSED) | | | S # 5 " | # 59.9 | . X F H X | | PROPERT | ACRAFT ALRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE E3 | CODE 7 CODE 0 ERSION | 31 0103 A |
| | 10 | 50 | ន្ត | 3 | 50 | 99 | 2 | ANGL | 25 | DEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 105.1 102.9 | 103.5 | 104.5 | 107.2 105.0 | | 9 4 | 107.2 | 106.8 | 105.3 | 105.2 | 10 % 1 101.9 | 102.6 | ~ • | | | | 17.2 | 106.1 1 103.6 1 | 04.2 |
| ه م | 96.9 | 99.9 | 102.7 | 166 | 102•1 99•7 | | 102.4 | 10 -1 | 100.6 | 99.6 | 100.3 | | | | | ~ M | 26 | 99.6 |
| | 6 | 95.0 | | 6.96 | . 12 | Α. | 97.9 | 90 | · | 40 | | ۰. | | | 96.2 | 97.8 | 7.96 | 9.46 |
| 4 M | 98.6 | 89.6 | | | - o | 0 M | 93.0 | 91.0 | , . | 89.6 | | . | | | 92.0 | 92.4 | 91.5 | 35.5 89.4 |
| 87.4 | 85.6 | 86.6 | • | ส์ เ | 89.1 | 90.6 | 98.3 | 88.2 | ٠. | 86.8 | 87.6 | 88.7 | 89.1 | 199.1 | 88.3 | | 68.7 | 86.5 |
| 64.0 | 79.1 | 900 | | តំ សំ | 82.9 | 84.6 | 84.1 | 82°5 | 81.5 | 80°0 | 81.2 | 82.6 | 83.2 | 88.3 | 82.5 | 8 3° 3 | 8 % C | 63.4 |
| 78.4 | 75.4 | 76.3 | 79.0 | 78.8 | 79.7 | 81.5 | 80.8 | 79.1 | 78.0 | 73.7 | 77.9 | 79.4 | 80.0 | 80.0 | 79.3 | 80.1 | 79.8 | 77.0 |
| | 67.0 | 69.2 | | 4 | 71.4 | 73.4 | 73.2 | 71.3 | 70.6 | 69.5 | 69.5 | 70.9 | 71.6 | | 71.9 | 71.9 | 71:4 | 68.9 |
| 66.1 | 57.1 | 63.8 58.9 | | 8 8 | 66.9 | 68.9 | 68.9 | 66.8 52.0 | 66.0 | 6.09 | 4 4 6 6 | 66.0 50.8 | 66.5 | 61.3 | 66.0 | 67.1 62.0 | 66.3 | 56.3 50.3 |
| 55.4 | 51.5 | 53.6 | 55.6 | 6 | 56.0 | 58.6 | 59.0 | 56.9 | 55.6 | 54.7 | 54.0 | 55.4 | 55.9 | | 55.1 | 56.4 | 55.4 | 53.7 |
| • | 45.9 | 48.5 | ë | 8 | 52.2 | 53.9 | 54.6 | | 50.7 | | | 51.2 | 51.5 | 51.6 | 50.4 | 52.0 | 20.1 | 49.8 |
| 45.8 | 39.9 | 42.6 | _ | | 46.7 | | 9.64 | + 1 | 6.44 | 9.44 | 43.9 | 46.1 | 46.5 | 46.6 | 45.0 | 46.9 | 45.5 | 43.5 |
| 9 q | 20.00 | 0 0 | • | : . | 9 40 40 40 40 40 40 40 40 40 40 40 40 40 | 76.7 | * | 7 4 | 9 0 | 2000 | 200 | 9 4 | 41. |) · · · · · · · · · · · · · · · · · · · | 24.6 | * I * | 59.0 20.0 | 37.55 |
| | 13.9 | 16.8 | 16.5 | 22.1 | 25.2 | 29.6 | 30.2 | 26.6 | 22.3 | 23,3 | 22.0 | 25.9 | 25.7 | 26.5 | 25.6 | 27.4 | 25.2 | 21.7 |
| 9 | , | | | , | | | | , | , | , | | | | | | | 1 | |

-Jean

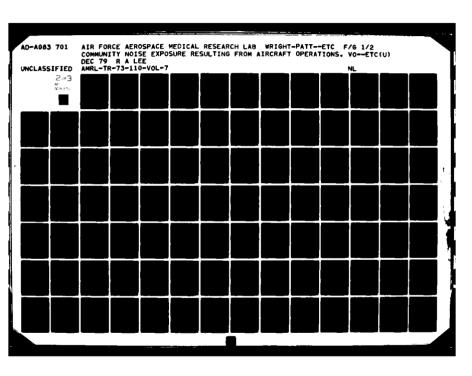
| | 3 | | • • | . · | 7 | | 6 | ~ | ~ • | | - | - | • | N M | | ~ · | | | ~ |
|--|--|---------------------|--------------|------------------|------|------|------|-------|----------|--------------|------|------|------|---------------------------------------|-----|----------|------|-------|-------|
| - | DE 731) DE 00103) LON A) | 3 | 69. | | | | | | | 62.0 | | | | | | 39.1 | | | 18. |
| IFICATIONS A 8.2 77-731-001 | 888 | 170 | 98.9 | 86.6 | 82.1 | 77.5 | 75.1 | 72.5 | 69.8 | 63.9 | 61.4 | 56.6 | 52.3 | | | 39.9 | 700 | 25.7 | 20.1 |
| IDENTIFICATIONS OMEGA 6.2 TEST 77-731-00 | - 22 - | | - 0 | | md | P 10 | | | | 64.0 | | | | | | | 9 0 | · • | ~ |
| DENTIFOMEGA OMEGA TEST 7 | AIRCRAFT OPERATION PROFILE V 28 NOV 79 PAGE F3 | 160 | 2 92. | | 50 | | 4 | | 2; | | 7 61 | | | N M | | | | 8 26. | |
| | 2 6 2 6 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 150 | 91. | 97.1 | 82. | 22. | 75. | 72. | 2: | 3 | 6 | 56. | 52. | | | | 200 | 25. | 21. |
| | | 140 | 92.0 89.9 | 85.5 | 83.3 | | 76.1 | 73.5 | 70.8 | 64.9 | 61.5 | 57.7 | 53.5 | P 20 4 | | 41.0 | 24.7 | 26.6 | 21.1 |
| | E I K | 130 | 91.7 | * 2 | 63.0 | . m | 8.8 | | ÷. | 64.5 | | .3 | | 9 | | <u>`</u> | 2 | 26.6 | |
| | 20 20 | • | # 19 | ~ = | u | n +1 | ۰ | | . | # M | | _ | | * 4 | , , | ه و | | , m | ~ |
| | # 29. | 120 | 91. | 85 | 82 | 2.0 | 75. | 73 | 2: | 9 | 69 | 57. | 25 | 9 4 | | ; | 0 - | 26. | 21. |
| | PRESS HUMID | 110 | 90.1 88.0 | 85.9 83.7 | 81.5 | 76.8 | 74.4 | 711.7 | 69.0 | 63.0 | 59.6 | 55.8 | 51.7 | 4. c | | 39.8 | 9 6 | 24.9 | 19.7 |
| | | 100 | 90.2 | 8 6. 0 8 3. 9 | 81.7 | 77.1 | 74.6 | 72.1 | 69.5 | 63.7 | 60.4 | 56.8 | 52.8 | \$ 0. \$ 0. \$ 0. | | 40.4 | | 25.4 | 19.7 |
| | # E | (DEGREES) 90 100 | 90.6 | 86.4 | 82.0 | 77.4 | 75.0 | 72.5 | 69.8 | 64.2 | 61.0 | 57.5 | 53.5 | 42°4 | | 6.04 | 100 | 25.3 | 19.3 |
| | SSED) | ANGLE 86 | 92.2 | 88.0 | 83.6 | 79.0 | 76.6 | 74.1 | 71.5 | 65.8 | | 59.0 | 55.0 | 50° / | | 45.4 | 22.6 | 27.0 | 21.2 |
| SOURCE | OWER (SUPPRESSED) | 20 | 93.8 | 89.6 | 65.3 | 80.7 | 78.3 | 75.8 | 73.2 | 67.5 | 64.2 | 9.69 | 56.6 | 52.0 48.4 | | 4 6 | 25.7 | 28.9 | 23.2 |
| FROM SC | i <u>ā</u> ш | 9 | 93.6 | 89.4 | 85.1 | 80.6 | 78.2 | 75.7 | 73.1 | 67.4 57.4 | 64.2 | 9.09 | | 5.74 6.8.3 | · · | • | 27.0 | 28.7 | 22.9 |
| EVEL (DBA) DISTANCE F | | 5 | 92.7 | 86.5 | 1.40 | 79.4 | 77.0 | 74.5 | 71.8 | 66.0 | 62.7 | 59.1 | 55.1 | 58.6 46.7 | | 42.3 | 20.2 | 26.7 | 20.9 |
| ا و ت | OPERATIONS AFTERB Single Ground | 3 | 92.5 | 88.3 | 83.8 | 79.2 | 76.7 | 74.2 | 71.5 | 60° | 62.6 | 59.2 | 55.2 | | | \$ 5° 3 | - C | 26.1 | 19.9 |
| L SOUND ANGLE AN | | e e | 91.7 | | | | _ | 73.0 | | * * | | | | 4 % c | | | | 23.9 | |
| 72 1 | 8 | 20 | 40 | . | 81.3 | 9 | | | | 63. B | | N | ~ | 47.4 | . 1 | | , r | 22.8 | • |
| A-WEIGHTED OVERALL AS A FUNCTION OF A | SUPPRESSOR | 18 28 | 88.2 | 83.8 | 79.3 | 74.6 | 72.0 | | 66.7 | | | 53.7 | 49.7 | 45.5 | | 36.8 | | | 15.5 |
| A-WEIGH AS A FU | SOURCE/SUBJECTS 4 NOTSE SUPPRES 32A-14 | | 90.9 | ~ 10 | | 77.7 | 75.3 | 72.8 | 70.2 | 0 | 61.4 | | | * * * * * * * * * * * * * * * * * * * | | 41.3 | 4.5 | 25.9 | 20.0 |
| TABLE: A | NOISE SOURCE/S F=4 NOISE AF32A-14 | DISTANCE (FEET) | | | 200 | | 1000 | 1258 | 1606 | | | | | 9000 | | 10666 | | | 25000 |

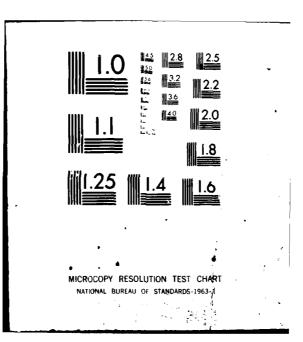
| NOISE SO | 2 | FUNCTION | P | ANGLE A | 2 | DISTANCE | FROM S | SOURCE | | | | | | | |) OMEGA | OMEGA 8.2 TEST 77-731-00 | 1-001 | |
|--------------------|--|---|------|----------|------------------------|--|--------|----------------------------|--------|------|--|-------|------------------------|--------|--------------|---|---------------------------------------|---------------------------|--------------|
| AF 32 | E SOURCE/SUBJECT F-4 Noise Suppre Af32A-14 | E SOURCE/SUBJECT: F-4 NOISE SUPPRESSOR AF32A-14 | 380R | | OPERA | RATION1 AFTERBURNER SINGLE ENGIN GROUND RUNUP | | POWER E (Suppressed) | ESSED) | 2000 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | SS | = 59 =29,92 = 70 | N H HG | | RUN 03 AIRCRAF OPERATI PROFILE 28 NOV | # F 0 0 5 € W | 00 DE 00 DE RS 10 N | 731 00103 |
| DISTANCE (FEET) | | 10 20 | 20 | es es | 3 | 50 | 6.0 | 0,2 | ANGLE | ~ ~ | DEGREES) | 971 | 120 | 130 | 140 | 150 | 160 | 170 | 181 |
| 200 | 91.7 | 88. | 90.1 | å | 92.5 | 92.7 | 4.46 | 93.8 | 92.2 | 91.6 | 90.2 | 90.1 | 91.4 | 91.7 | 92.0 | 91.2 | 2.5 | 91.9 | 69. |
| 250 | 89.5 | | 88 | ė | 90.4 | 9006 | 92.3 | 91.7 | 90.1 | 89.5 | 88.1 | 88.0 | 89.3 | 89.6 | 69.6 | - | * | 89.6 | 97. |
| 315 | 87.4 | 40.40 | 50.0 | 8 8 4 | 68.3 | 88.5 | 90.2 | 89.6 | 80.0 | 87.4 | 86.0 | 85.9 | 87.2 | 87.4 | 87.7 85.5 | 9 · 4 · 6 | 200 | 97.6 | 85.5 |
| 9 00 | 83.1 | | 8 1 | å m | 9 60 60 60 60 60 | 84.1 | 85.9 | 85.3 | 83.6 | 83.0 | 81.7 | 81.5 | 82.8 | 83.0 | 83.4 | 82.5 | • • • • • • • • • • • • • • • • • • • | 83.2 | 2 2 |
| 630 | 80.8 | | 7.9 | : 4 | 81.5 | 81.8 | 83.7 | 83.0 | 81.4 | 80.8 | 4.62 | 79.2 | 80.5 | 80.7 | 81.0 | 80.2 | 1.5 | 80.9 | 78. |
| 900 | 78.5 | | 76. | ô | 79.2 | 79.4 | 81.4 | 80.7 | 79. 3 | 78.4 | 77.1 | 76.8 | 78.1 | 78.3 | 9.02 | 17.8 | - | 28.5 | 76.4 |
| 1000 | 76.1 | | 74.1 | ڻ | 76.7 | 77.0 | 19.0 | 78.3 | 76.6 | 76.0 | 74.6 | 74.47 | 75.6 | 75.8 | 76.1 | • | 9 | 76.1 | 73. |
| 1250 | 73.5 | 68.69 | 71. | 7.0 | 74.2 | 74.5 | 76.5 | | 74.1 | 73.5 | 72.1 | 71.7 | 73.0 | 73.2 | 73.5 | 72.8 | | 73.5 | 71.3 |
| 1600 | 71.0 | | | 4 | | 71.8 | 73.9 | 73.2 | 71.5 | 70.9 | 69.5 | 69.0 | 70.3 | 70.5 | 70.8 | ~ | m | 70.8 | 99 |
| 2000 | 68.3 | | 99 | 8 | 68,8 | 69.0 | 71.2 | | 66.8 | 68.1 | 66.7 | 66.2 | 67.4 | 67.7 | 68.1 | | s | 66.1 | 65. |
| 2500 | 65.3 | | 63. | ŝ | 65.8 | 66.0 | 589 | | 65.8 | 65.2 | 63.7 | 63.0 | 64.3 | 64.5 | 6.49 | ~ | m | 65.0 | 62.1 |
| 31.50 | 62.1 | | | ď | 62.6 | 62.7 | 6 * 49 | | 62.6 | 65.9 | 60.4 | 59.6 | 60.8 | 61.1 | 61.5 | ~ | 6 | 61.5 | 59.1 |
| 4000 | 58.4 | | 56 | ě | 58.5 | 59.1 | 61.2 | | 59.0 | 58.3 | 56.8 | 55.8 | 57.0 | 57.3 | 57.7 | σ | | 57.4 | 55. |
| 5000 | 54.3 | | 52 | ; | 55.2 | 55.1 | 57.D | | 55.0 | 54.1 | 52.8 | 51.7 | 52.8 | 53.0 | 53.5 | ~ | 9 | 52.9 | 51.6 |
| 6300 | 49.8 | | 47.9 | å | 51.0 | 50.8 | 52.6 | 52.3 | 50.7 | 49.7 | 48.4 | | 48.4 | 48.6 | 49.0 | ~ | | 48.2 | 47 |
| 8008 | 45.7 | 41. | 43.7 | ŝ | 6 °9 | 46.7 | 48.5 | | 46.7 | 45.5 | 44.6 | 43.4 | 44.6 | 44.0 | 45.2 | m | +4 | 44.2 | 63 |
| 10000 | 41.3 | 36. | 39.2 | ė | 42.3 | 42.3 | 44.0 | 44.1 | 45.4 | 6.04 | 40.3 | 39, 3 | | 40.7 | 41.0 | ~ | | 39.9 | 39.1 |
| 12500 | 36.6 | 32. | 34.2 | ŝ | 37.4 | 37.5 | 39.3 | 39.5 | 37.7 | 36.1 | 35.7 | | | 36.3 | 36.5 | ~ | 9 | 35.5 | 34. |
| 16000 | 31.5 | | 28.7 | 29.9 | 31.9 | 32.3 | 34.2 | 34.4 | 32.6 | 30.9 | 30.7 | 30.0 | 31.5 | 31.6 | 31.7 | 30.9 | 31.9 | 30.8 | 29.7 |
| 20000 | 25.9 | 21. | 22,8 | 'n | 26.1 | 26.7 | 28.7 | 20.9 | 27.0 | 25.3 | 25.4 | | | 26.6 | 56.6 | • | ~ | 25.7 | 24. |
| 250.0 | | | | 1 | | | | | | | | | | | | | | | |

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| NOISE SOURC F-4 NOI AF32A-1 | _ | DISTANCE | 250 F | FFFT | | | | | | | | | | | | | | UNEGA | A 5.2 77-731-881 | 1 - 00 4 | |
|-----------------------------------|--------------|----------|-------|------|-------|--|--|--------|----------------------|------|-----------|---|--------------|-----------------------------|-----------------------|------------|--------|---|---|-----------------------|---------------------|
| | CE/SI ISE | PRES | • | | | OPERATIONS AFTERB SINGLE GROUND | ATION: AFTERBURNER POWER SINGLE ENGINE GROUND RUNUP (SUP | ER POI | OMER (SUPPRESSED) | SED) | 2 C C C C | METEOROLOGY 8 TEMP BAR PRES: REL HUMI DELTA N = | PRES HUMI | = 59 S = 29.92 D = 70 | 59 F 92 IN 70 % | 9 | | AIRCRAFT OPERATION PROFILE VI 26 NOV 79 | RUN 03 AIRCRAFT CODE 7 OPERATION CODE 8 PROFILE VERSION 26 NOV 79 PAGE J3 | CODE CODE RSION | 731 80103 A A |
| | | | | | , di | P=PNLT | | | | ¥ | A=AL | | | | | T=ALT | | | | | |
| | | | • | | | | | | | | | • | | • | | •; | | • | | | |
| | : . | • | • • | • | • | • | • | • | • | • | • | • • | • | • • | • | • | • | • | • | • | |
| 3 6 | - - | | • • | | • • | | • • | | • • | • • | | • • | | • • | a | • • ; | | ••• | | • • | |
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| . 4 | | | • • • | • | • | • | • | • | • | | | • • • | • | • • • | • | × | • | | | • | |
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| E | | • | • • • | • | • | • | • • • • | • | • | • | • | ••• | • | • | • | • • • | • | • • • • | ٠ | • • • • | |
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| 12 | | | • • • | | • • | | • • | | | | | • • | , | • • | | • | | • • | | • • | |
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| 478 | | | • • • | | • • | | • • • | | • • • | | | • • • | | • • • | | ٠. | | • • | ٠ ، | • • | |
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| |) | 10 | 20 | | 30 | | 3 | | 50 | | 60 70 | 2 | | 8 | | 9 | | 5 | | 122 | - |

| F-5 NOISE SUPPRESSOR F-5 NOISE SUPPRESSOR | F=S NOISE SUPPRESSOR F=S NOISE SUPPRESSOR | F-5 NOISE SUPPRESSOR F-5 NOISE SUPPRESSOR | F-5 NOISE SUPPRESSOR F-5 NOISE SUPPRESSOR |
|--|--|---|--|
| | | | |
| | NOISE PRODUCED ON THE | CO ON THE GROUND BY | |
| | F-5 NOISE | SUPPRESSOR | |
| | DURING GROU | DURING GROUND RUN-UP OPERATIONS | |
| | TEST AIRCRAFT PROFILE COMPUTER F | TEST 77-746-001 AIRCRAFT CODE: 746 Profile Version: A Computer Program omega 0.2 | |
| | Power Setting | Page | |
| | Engine Runup, 80% RPM . Military Power, 101% RPM Afterburner Power | 93-98 99-104 99-110 | |
| | FOR EACH POWER SETTING, 1 | THE FOLLOWING DATA ARE PROVIDED: | |
| | NORMALIZED DATA AS A FUNCTION OF ANGLE AN NORMALIZED SPL AT 250 FEET NOISE LEVELS AS A FUNCTION OF ANGLE AND D PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A WEIGHTED OVERALL SOUND LEVEL SOUND SOUND SOUND SOUND SOUND SOUND SOUND SOUND | D FREQUENCY ISTANCE FROM UND LEVEL 0 FEET FROM S | SOURCE |
| ∢ 3 | EROSPACE MEDICAL RIGHT-PATTERSON | RESEARCH LABORA AIR FORCE BASE, | ⊢0 8.1 ≻0 |
| F-9 MOISE SUPPRESSOR | F-5 NOISE SUPPRESSOR F-5 NOISE SUPPRESSOR | F-5 NOISE SUPPRESSOR F-5 NOISE SUPPRESSOR | F-5 NOISE SUPPRESSOR F-5 NOISE SUPPRESSOR |





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|---|---|--------------------------|-----|-----|----------|-----|------------|---------------|------------|-----|-----|----------|----------|--|------------|------------|------|-----------|-----|------------|-----------|------------|------------|-------------|------------|
| | 746 60119 - A | 186 | 82 | 77 | 7.8 | 78 | 2 | 67 | 49 | 9 | 21 | 21 | 20 | 20 | 3 4 | 5 | 27 | 5 | 20 | 2 | 20 | 64 | 33 | 30 < | 96 |
| 0 N S | CODE CODE ERSION | 170 | 81 | 92 | 77 | 11 | 2; | 9 | 62 | 23 | 24 | 25 | 4 | 22 | 7 6 | 2 7 | 23 | 52 | 25 | 53 | 53 | 29 | 7 | 32< | 82 |
| FICATION: 8.2 77-746-001 | | 160 | 81 | 92 | 22 | 73 | 7: | - 4 2 2 | 61 | 23 | 25 | 53 | 26 | 20 | 4 G | 2 4 | 25 | 26 | 26 | 63 | 9 | 53 | £5 | 36< | 4 |
| DENTIFICATIONS OMEGA 8.2 TEST 77-746-00 | AIRCRAFT OPERATION PROFILE V 28 NOV 79 PAGE C1 | 150 | 0 | 15 | 92 | 73 | Z: | 2 <u>6</u> | 63 | 61 | 28 | 52 | 26 | 50 10 10 10 10 10 10 10 10 10 10 10 10 10 | 7 C | n N | 26 | 25 | 26 | 63 | 61 | ž | 4 3 | 32< | \$ |
| | P S P P E E | ę ę | 80 | 15 | 92 | 42 | 72 | 2 9 | 62 | 61 | 23 | 5 | 26 | 25 | 7 L | , m | 20 | 9 | 26 | 25 | 26 | 51 | 42 | | 48 |
| | r Ni Ni Ni Ni | 30 1 | 90 | 92 | 77 | 30 | * ! | 2 2 | 29 | 61 | 9 | 25 | 25 | 91 | 5 H | 3 40 | 24 | 52 | 52 | 96 | 53 | 47 | 39 | 30< | 86 |
| | 59 F 792 I 70 X 10 B | 20 1 | 11 | 90 | 22 | 73 | © | - 9 - 9 | 29 | 61 | 90 | 28 | 22 | ٠ ا | 7 2 | + 4 | * | 24 | 24 | 26 | 52 | Ę, | 37 < | 5 62 | M 60 |
| | 62.0 | 7 | ب | | | | 29 | | | | | | | | 50 | | | | | | | | 38 < | v | 28 |
| | METEOROLOGYS TEMP BAR PRESS REL HUMID DELTA N = 0 | 11 | | m | . | ~ | æ , | ى م | ~ | 74 | ნ | ~ | 4 | ر م | -i c | | | 0 | ტ | -1 | _ | | ~ | r, | + 4 |
| | ETEOR TEMP BAR REL | EG4EES) 90 100 | 8 | | | | 9 | 99 | | | | | | | . u | | | | _ | | 9 | * | . | * >6 | • |
| | | :: | 7 | | | | | | | | `, | | | | | | | | | | | | | v | 81 |
| | 80% RPM (Suppressed) | ANGL | ~ | | | | | 99 | | | | | | | | | | | | | | | 7 | v | . 62 |
| | X RPH UPPRE | 2 | 77 | | | | | 2 5 | | | | | | | | | | | | | Ω. | w | v | 30 | 81 |
| (08) | | 9 | 74 | 69 | 69 | 65 | 67 | * * | 60 | 59 | 28 | 57 | 52 | 52 | # 4 | 7 | 4 | 48 | 48 | 46 | 46 | * * | 38 | 32 | 7.8 |
| i | | 50 | 73 | 72 | 71 | 29 | 29 | 61 | 20 | 50 | 28 | 52 | 25 | in i | > 0 | 20 | 52 | 52 | 49 | 47 | 40 | 47 | † 1 | 35 | 7.8 |
| E LEVEL | ERATIONS ENGINE R SINGLE E GROUND R | 9 | 73 | 72 | 72 | 99 | 23 | 63 | 19 | 9 | 61 | 9 | 57 | υ υ | מ מ | 22.5 | ů, | 24 | 25 | 53 | 25 | 48 | 8 2 | 29 | 8 |
| ES SURE T | 0 PE | 30 | 73 | 7.1 | 71 | 0.1 | 71 | 61 | 209 | 9 | 62 | 23 | 35 | | 7 0 | | | | 51 | | | | 40 | | 4 |
| FEE | | 20 | 72 | 69 | 73 | 73 | 60 | 9 | 62 | 62 | 50 | 5 | 25 | ر ا ا | υ R V R | 9 0 | 29 | 28 | 25 | 52 | 34 | 21 | £ | 45 | 9 |
| SOUND BAND 250 | T 1 S 0 R | 9 | 7.4 | 76 | 74 | 22 | 70 | 9 | 65 | 63 | 63 | 25 | 20 | 22 | ۲ ۲ | 26 | 62 | 61 | 25 | 28 | 23 | 26 | | 45 | 10 |
| LIZED CTAVE NCE = | /SUBJECT & | و | 73 | 7.1 | 36 | 77 | 7.7 | 0 4 0 9 | 9 | 29 | 63 | 25 | S S | o i | n V 7 | i S | 29 | 61 | 21 | † 9 | 61 | 2 6 | 4 | 4 | 82 |
| ORM 73 | i W | ER (| | | | | | | | | | | | | | | | | | | | | | | |
| | SE SOUI -5 NOI: F32A-14 | BAND CENTER FREQ (HZ) | 20 | 63 | 90 | 100 | 125 | 200 | 25.0 | 315 | 001 | 200 | 630 | | 1001 | 1600 | 2000 | 50.0 | 150 | 4000 | 900 | 300 | 000 | 000 | OVERALL |
| 100 | NOISE F=5 AF33 | BAND | | | | 4-4 | ~ 1 | → (V | •• | 1~3 | 4 | ٠., | . | - (| - N | 7 | 7 | 25 | 3, | 4 | 2 | Ó | • | 10 | 300 |
| しししし | | | | J | J | J . | | | J | J | _ | _ | _ | | | | J | J | J | J | J | J | _ | | . پ |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| ABLES | PERCE AS A | IVED NOI FUNCTION | SE L | וני ר | (PNDB) AND DISTANCE | 1 | FROM SOURCE | SOURCE | | | | | | | |) IDENTI) OMEGA) TEST | IDENTIFICATIONS OMEGA 8.2 TEST 77-746-881 RUN 81 | ION: 6-081 | |
|--|---|---|------------------------------|---|--|--------------------------------------|------------------------------------|----------------------|------------------------------|----------------------|-----------------------------|-------------------------|----------------------------|----------------------|----------------------|--|--|-----------------------|----------------------|
| F-S F-S AF 32 | F-S NOISE SAFIA | SOURCE/SUBJECT: 5 NOISE SUPPRESSOR 32A-18 | SOR | | OPERATIONS ENGINE SINGLE GROUND | ATION: ENGINE SINGLE GROUND | RUNUP ENGINE RUNUP | , <u>a.</u> ac | SSED) | T 5 | | NO P | = 59.92 = 29.92 = 70 | TIX Z | | AIRCRA OPERAT PROFIL 26 NOV PAGE | ZAFT TION 11 V 10 79 | 2006 8006 8006 | 746 88119 A A |
| (DISTANCE (FEET) | | 2 | 20 | 8 | 3 | 20 | 50 60 70 | • | ANGLE 80 | 20 | OEGREES) 0 100 | 110 | 120 | 130 | 140 | 150 | 168 | 170 | 186 |
| 200 | 89.9 87.5 | 88.2 | 85.4 83.1 | | 8 4. 1 81. 8 | 81.0 | 79.7 | 85.8 83.5 | 84.1 | 85.3 | 83.8 | 83.6 81.2 | 85.5 | 86.3 | 67.3 | 86.6 | | 83.7 | 98.5 |
| 318 480 680 680 680 680 680 680 680 680 680 6 | 85.1 79.9 | 83.6 81.1 78.6 | 78.3 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 73.9 | 72.6 | 76.7 | **** | 76.1 75.5 | 75.7 | 73.9 | 78.4 | 76.0 | 60.3 77.6 | 79.0 | 61.3 78.7 | 76.8 | 2.2 |
| 900 | 7:1 | 73.2 | 70.4 | • • | 69.0 | 66.8 | 64.9 | 70.7 | 689 | 69.8 | 67.7 | 2 - 89 | 70.1 | 73.3 | 72.4 | 73.3 | 72.9 | 78.6 | 78.0 |
| 1230 | 70.9 67.3 63.9 | 70.3 67.0 63.5 | 67.5 64.3 60.8 | 65.4 | 66.0 53.0 7 | 63.1 59.7 56.8 | 62. 59.0 | 67.8 64.7 61.1 | 66.0 63.0 59.6 | 66.6 63.0 59.0 | 64.7 61.3 57.8 | 65.9 62.5 59.8 | 67.3 64.3 60.5 | 78.2 66.7 62.9 | 69.5 66.3 62.8 | 70.0 66.5 62.6 | | 67.6 64.2 60.3 | 67.6 64.1 69.1 |
| 2006 | 900 | 60 C C C C C C C C C C C C C C C C C C C | 50° 6 | 1 0° € 10° | 50 4 50 4 50 6 50 6 | 52°1 47°2 | 51.7 46.6 | 57.2 52.7 | 55.7 51.0 65.3 | 50.0 | 54.6 49.2 | 55.0 50.0 55.0 | 56.7 51.9 46.4 | 58.4 53.2 46.7 | 58.6 53.9 | 57.9 52.5 46.7 | | 55.6 50.4 4.4.4 | 55.5 49.9 53.2 |
| 2000 2000 2000 2000 2000 2000 2000 200 | 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 43.6 25.7 13.0 | 39.5 31.0 21.1 10.3 | 2000 2000 2000 2000 2000 2000 2000 200 | 2000 2000 2000 2000 | 33.4 | 24.7 24.0 24.0 2.0 2.0 | 40.5 33.3 15.2 | 37.9 30.2 18.7 10.4 | 37.6 29.7 18.8 | 36.1 27.8 17.5 7.6 | 130.6 130.6 130.6 | 22.9 23.9 12.9 | 40.2 31.9 19.7 | 23.0 | 39.7 30.5 17.4 6.6 | 36.9 28.9 15.5 | 37.3 26.9 13.6 | 35.5 22.5 9.5 |
| 10000 (12500 (16600 (26600 (25000 | | | | 5.5 | 6 | | ~ | | 2.1 | | | | | | | | | | |

| ABLES | TONE-C | TONE-CORRECTED, PERCE. AS A FUNCTION OF ANGL | ED, PERCE! N OF ANGLI | > W | VEO NOISE LEV AND DISTANCE | LEVE | IL (PNOB) FROM SOURCE | 3) JURCE | | | | | | | | DENTI ONEGA TEST | IDENTIFICATIONS ONEGA 8.2 TEST 77-746-881 | ION: 6-861 | |
|---------------------------------------|----------------------|---|--------------------------|----------------|-------------------------------|----------------------|----------------------------|--------------|--------------|---------------------|-------------------------------|---------------|------------------|------|------|------------------------|--|--------------------------------------|---------------------|
| NOISE | RCE/S OISE -10 | SUBJECT I SUPPRESSOR | SOR | | 1 🗷 | | RUNUP G ENGINE RUNUP | 1 0 02 | SSED | 1 | METEOROLOGY BAR PRES REL HUHI | | 29, 92 29, 92 | T | | A PAGE | RUN 01 AIRCRATION CODE PROFILE VERSION 26 NOV 79 PAGE E1 | CODE 7 ON CODE 0 VERSION 19 | 746 00119 N A |
| (DISTANCE ((FEET) | 9 | 10 | 50 | 36 | 3 | 56 | 92 09 | ŀ | ANGLE 80 | (DEGREES) 90 100 | 100 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 91.4 | 88.7 | 85.4 83.1 | | 85.0 | 81.0 | 79.7 | 85.8 83.5 | 85.1 | 84.2 | 83.6 | 83.6 81.2 | 86.8 | 89.3 | 87.3 | | 90.2 | 86.1 | 86.2 |
| 315 | 86.6 | 84.1 | 50.7 | | 80.3 | 76.3 | 75.0 | 81.1 | . t c | 81.8 | 78.8 | 76.8 | | | | | | 81.3 | 81.4 |
| 200 | 81.4 | 79.1 | 75.8 | 73.8 | 75.4 | 71.4 | 70.0 | . ~ ~ | | 76.7 | 73.8 | 73.9 | | | 77.8 | 80.6 | 80.2 | 76.3 | 76.4 |
| 900 | 75.6 | 73.7 | 73.4 | | 69.8 | 66.0 | 6.49 | | | 71.0 | 68.3 | 68.7 | 70.7 | 74.3 | | | | 70.6 | 70.8 |
| 1669 | 72.4 | 73.8 | 67.5 | 65, 9 63, 6 | 66.8 63.8 | 63.1 59.7 | 62.1 59.0 | 67.8 | 67.0 | 67.9 | 65.3 | 65.9 62.5 | 67.9 | | 69.5 | 71.6 | 71.2 | 67.6 | 67.6 |
| 1660 | | 64.0 63.1 | 60.8 56.4 | | 66.5 56.8 | 56. 0 52.1 | 55.5 51.7 | | 60.6 56.7 | 66.6 56.7 | 50.4 54.6 | 59 . 8 | 61.8 57.2 | | | ~ ~ | | 68.3 55.6 | 55.5 |
| 3150 | 57.0 51.8 | 55.6 | 52°3 | | 52.3 46.8 | 47.2 | 46.6 40.7 | ~ ~ | 52.0 46.4 | 52.0 46.3 | 6.64 | 50.5 | | 54.2 | | M | | 50.4 | 49.9 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 45.0 | 44.0 | 39.5 | | 40°2 | 33.4 | 33.7 | 40 M | 36.8 | 30.6 | 36.6 | 37.6 | 40°7 | | 4104 | | | 37.3 | 35.5 |
| 9000 | | 26.4 | 21.1 | 21, 1 | | 11.5 | 14.2 | 22.6 15.2 | 19.1 10.6 | | 17.7 | 10.8 | 23.2 13.0 | | | | 16.1 | A. 60 60 | 9.5 |
| | | | | r. | 7.3 | | ~ | | 2.1 | | | | 2 • | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| NOTE SUNCE/SUBJECT: ANGLE SUPPRESS OR (STATUM RUNUP 80.X PPH | TABLE: | A- ME I | A-WEIGHTED OVERALL | VERALL | SOUND | ۽ ڌ | (08A) | 700 | 2000 | | | | | | | |) IDENTI) OMEGA | IDENTIFICATIONS OMEGA 8.2 TEST 77-766-801 | NO. | |
|--|--------------------|----------|--------------------|--------|--------------|----------------------------|-------|------------|----------|---------------|-------------|-----------------------------|--|-------------------------|-------|-------|-------------------------------------|---|------|-----------------|
| 10 10 20 30 40 50 60 65 4 70 50 60 90 10 118 128 130 140 150 150 170 170 170 170 170 170 170 170 170 17 | | NOTE SE | UBJECT 1 | SOR | 1 | 8 | i |) <u>i</u> | IDX RPH | SSED | | EOROL TEMP BAR REL | PRESS HUMID | # 55 # 29.92 # 70 | L H X | | ALINC ALINC DPROF D 28 NOF | RAFT CATION CILE VER | | 46 0119 A |
| 73.7 72.7 78.1 68.3 65.8 65.8 65.4 65.4 65.2 67.5 66.2 78.1 78.9 71.5 72.7 71.6 69.2 67.4 65.3 66.1 66.8 65.3 65.3 65.4 65.3 65.4 65.1 65.8 65.3 65.8 65.3 65.8 65.8 65.8 65.8 65.8 65.8 65.8 65.8 | DISTANCE (FEET) | ! - | 10 | 20 | 98 | 3 | 20 | 9 | 7.0 | ANGLE | | 100 100 | 110 | 128 | 130 | 140 | 150 | 991 | 22 | 18 |
| 7.2.4 7.1.5 6.0.1 6.0.4 6.0.1 6.0.4 6.0.1 6.0.4 6.0.1 6.0.4 6.0.1 6.0.4 6.0.1 6.0.4 6.0.1 6.0.4 6.0.1 6.0.2 6.0.1 6.0.3 6.0.1 6.0.2 6.0.1 6.0.3 6.0.1 6.0.2 6.0.2 6.0.3 6.0.3 6.0.1 6.0.2 6.0.3 6.0.3 6.0.2 6.0.3 6.0.3 6.0.1 6.0.2 6.0.2 6.0.3 6.0.3 6.0.4 6.0.3 6.0.4 6.0.3 6.0.4 6.0.3 6.0.4 6.0.3 6.0.4 6.0.3 6.0.4 6.0.3 6.0.4 6.0.3 6.0.4 6.0.3 6.0.4 6.0.3 6.0.4 6.0.3 6.0.3 6.0.4 6.0.3 <th< td=""><td>200</td><td>73.7</td><td></td><td>70.1</td><td>68.3</td><td>69.5</td><td>66.0</td><td>65.4</td><td>70.5</td><td>•</td><td>69.2</td><td></td><td></td><td>70.1</td><td>70.9</td><td>71.5</td><td>-</td><td></td><td></td><td>69.1</td></th<> | 200 | 73.7 | | 70.1 | 68.3 | 69.5 | 66.0 | 65.4 | 70.5 | • | 69.2 | | | 70.1 | 70.9 | 71.5 | - | | | 69.1 |
| 66.6 66.8 63.5 61.8 63.1 59.5 59.1 64.0 62.5 62.5 61.1 61.9 63.6 64.6 64.9 65.1 64.7 62.2 66.9 61.4 65.7 61.2 59.6 61.9 57.3 56.9 61.7 61.2 59.6 61.9 57.3 56.9 61.7 61.2 59.6 61.9 57.8 56.9 57.4 57.8 56.9 61.7 61.6 62.3 62.6 62.7 62.2 61.5 61.5 61.2 59.1 56.1 57.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 | 2 | 71.4 | | 69.0 | 66.2 64.4 | 67.4 | 63.9 | 63. | . | o ۲ | 67.0 | | 66. 1 64. | 68.0 | 68.8 | 69.3 | . | | | 67.0 |
| 64.4 63.7 61.2 59.6 60.9 57.3 56.9 61.7 60.2 60.2 59.7 61.4 62.3 62.6 62.7 62.2 60.2 61.9 61.2 59.8 61.2 59.6 61.7 60.2 59.7 61.4 62.3 62.7 62.6 62.7 62.2 60.2 61.9 61.2 59.8 51.2 59.8 57.3 59.8 57.3 59.8 57.8 56.6 57.8 56.6 57.4 59.1 60.1 60.1 60.1 50.1 50.6 59.8 59.2 59.3 57.8 56.6 57.8 56.8 57.8 50.1 60.1 60.1 60.1 50.1 50.0 59.8 59.2 59.3 59.7 50.2 50.1 50.1 50.1 50.1 50.1 57.6 57.6 57.6 57.6 57.6 57.8 50.1 59.8 59.8 59.8 51.1 47.4 47.4 47.4 47.4 47.3 47.3 47.3 47.3 | | 6 6 A | | 63,5 | 61.8 | 63.4 | 20.0 | 59.1 | | . w | 62.5 | 61.1 | 61.9 | 63.6 | 64.6 | 6.49 | , - | | | 62.8 |
| 59.3 56.6 57.8 56.6 57.3 56.5 55.6 59.3 57.9 57.6 56.6 57.4 59.1 66.0 66.1 56.1 59.6 58.2 59.3 56.7 56.4 54.2 55.1 56.7 57.6 57.6 57.6 56.9 55.7 56.9 55.7 56.9 57.6 57.6 57.6 57.6 57.6 57.6 57.7 56.9 55.7 56.9 57.8 56.9 57.8 56.9 57.8 56.9 57.8 56.9 57.8 57.8 56.9 57.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 | 2 | 64.4 | | 61.2 | 28.0 | 60.0 | 57.3 | 56.9 | 61.7 | ~ | 60.2 | 58.9 | 59.7 | 61.4 | 62.3 | 62.6 | | | | 9.09 |
| 56.5 56.8 53.8 52.4 53.7 58.1 49.7 54.3 52.9 52.7 51.8 52.6 54.2 54.9 54.9 54.9 54.9 58.1 53.1 53.1 53.1 53.1 53.2 51.0 49.1 51.8 52.1 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51 | 9 9 | 61.9 | | 29. | 57° | 100 100 100 100 | 55. | 54.6 | 59.3 | o. | 57.8 | 56.6 | 57.4 | 59.4 | 9: | 7.00 | - 4 : | | 2.6 | 56.3 |
| 56.5 53.6 53.6 53.6 54.9 54.9 54.9 54.9 54.9 54.0 54.0 54.9 54.9 54.0 54.0 54.6 54.6 54.6 54.6 54.6 54.1 54.6 54.1 54.6 54.1 54.6 54.0 54.6 54.6 54.6 54.7 54.6 54.7 54.7 54.7 54.2 45.2 45.7 45.7 45.8 47.3 45.8 47.3 45.8 47.3 45.8 47.3 45.8 47.3 45.8 45.7 45.8 47.3 45.7 45.7 45.7 45.7 45.7 45.7 35.4 35.4 35.4 45.7 45.8 45.7 35.4 35.3 35.4 45.7 45.7 45.7 35.4 35.4 35.4 35.4 45.7 45.8 45.7 35.8 35.4 35.2 35.4 35.8 35.4 35.2 35.4 35.2 35.4 35.4 35.2 35.4 35.8 <th< td=""><td></td><td>2.0</td><td></td><td>•</td><td>**</td><td>200</td><td>25.6</td><td>2 • 2 6</td><td>50.0</td><td></td><td>200</td><td>7 ** 7</td><td>1966</td><td>200</td><td>97.0</td><td>9.50</td><td></td><td>.</td><td>).(</td><td>22.0</td></th<> | | 2.0 | | • | ** | 200 | 25.6 | 2 • 2 6 | 50.0 | | 200 | 7 ** 7 | 1966 | 200 | 97.0 | 9.50 | | . |).(| 22.0 |
| 53.6 53.2 51.0 49.8 51.1 47.1 51.6 51.2 49.1 51.9 51.0 51.0 49.8 51.1 47.4 47.1 51.6 51.2 49.1 51.5 52.1 51.6 51.1 51.0 51.0 51.0 40.7 40.8 40.7 40.8 40.7 40.8 40.7 40.8 40.7 40.8 40.7 40.8 40.7 40.8 40.7 40.8 40.7 40.8 <th< td=""><td>1000</td><td>56.5</td><td></td><td>53.8</td><td>52.4</td><td>53.7</td><td>58.1</td><td>49.7</td><td>54.3</td><td>6</td><td>52.7</td><td></td><td>52.6</td><td>54.2</td><td>54.9</td><td>_</td><td>54.6</td><td>_</td><td></td><td>53.1</td></th<> | 1000 | 56.5 | | 53.8 | 52.4 | 53.7 | 58.1 | 49.7 | 54.3 | 6 | 52.7 | | 52.6 | 54.2 | 54.9 | _ | 54.6 | _ | | 53.1 |
| 50.5 50.2 40.0 47.0 40.6 44.3 40.0 47.3 47.0 46.2 47.2 40.7 49.1 49.1 40.4 47.9 47.2 47.3 47.3 47.0 47.2 40.7 49.1 49.1 40.4 47.9 47.2 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.3 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 | 1250 | 53.6 | | 51.0 | | 51.1 | 47.4 | 47.1 | 51.6 | ~ | 6.64 | | 50.0 | 51.5 | 52.1 | _ | 51.6 | - | | 21.5 |
| 47.3 47.1 44.9 44.2 45.6 41.7 41.5 45.9 44.3 44.3 44.3 45.7 45.9 45.9 45.9 45.6 44.8 44.8 44.8 47.1 44.9 44.2 45.5 41.1 41.5 42.5 41.0 41.1 41.1 42.5 42.5 41.0 41.1 41.1 42.5 42.1 42.1 41.1 42.1 42.1 42.1 42.1 42.1 | 160 | 50.5 | | 48.0 | | 48.4 | 44.6 | 44.3 | 48.8 | m | 47.0 | 46.2 | 47.2 | 48.7 | 49.1 | _ | 40.4 | | | 47.1 |
| 43.7 43.6 41.5 40.9 42.5 38.4 38.3 42.5 41.0 40.0 41.0 42.5 42.6 42.4 41.4 418.9 40.4 41.5 41.5 41.5 41.5 41.5 41.5 41.5 41 | 2000 | 47.3 | | 4.9 | | 45.6 | 41.7 | 41.5 | 45.9 | m | | 43.3 | ¥4.3 | 48.7 | 45.9 | _ | 45.0 | | | 43.7 |
| 39.9 39.8 37.8 37.8 37.8 37.7 39.8 37.3 37.8 35.3 37.4 39.8 33.6 38.7 37.6 37.5 35.6 37.3 36.6 39.9 39.9 39.9 39.8 37.8 37.8 37.8 37.8 37.8 37.8 37.8 37 | 2500 | 43.7 | | 41.5 | | 42.5 | 38.4 | M . W | 45.5 | 0 | 40.7 | | 41.0 | 45.5 | 45.4 | _ | 47.4 | | | 30.8 |
| 13.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 23.0 | 3150 | 39.9 | | 37.6 | | 4 ° | 34.0 | 34.7 | 9 ° 6 | m i | 37.8 | | 37.4 | 39.0 | 38.6 | | 37.6 | | | 35.6 |
| 25.3 26.5 24.6 24.5 25.9 22.2 22.0 26.4 24.3 23.7 24.7 25.7 25.6 25.7 24.5 25.6 25.7 25.6 25.7 25.6 25.7 25.6 25.7 25.6 25.7 25.6 25.7 25.6 25.7 25.6 25.6 25.7 25.6 25.7 25.6 25.6 25.6 25.7 25.6 25.6 25.6 25.6 25.7 25.6 25.6 25.6 25.6 25.7 25.6 25.6 25.6 25.6 25.6 25.6 25.6 25.6 | | 20.0 | | 0 ° 0 | | 20° | 50.0 | 50.7 | 35.1 | 9 6 | 1.50 | | \$ 60 60 60 60 60 60 60 60 60 60 60 60 60 6 | 39.5 | *** | | 30.5 | | | 50.00 |
| 22.2 22.3 20.6 20.8 23.1 10.4 10.4 22.6 20.8 20.6 20.0 21.0 22.0 22.0 21.8 20.7 20.5 20.8 17.9 10.1 16.2 15.0 19.1 16.4 10.4 10.4 10.5 10.6 17.0 16.7 16.2 17.1 10.7 10.3 17.7 16.8 16.7 16.3 13.7 13.8 11.8 12.8 12.8 12.8 12.8 12.8 12.8 12 | 6388 | 26.3 | | 24.8 | | | 20.00 | 200 | 26.0 | | 26.4 | | 24.7 | 76.7 | 25.5 | | 26.5 | | | 21.5 |
| 17.9 180.1 16.2 16.9 19.1 14.4 14.5 180.6 17.0 16.7 16.2 17.1 18.7 18.3 17.7 16.8 16.7 16.3 13.7 13.8 11.6 12.6 12.8 12.8 12.8 12.8 12.6 12.6 13.7 13.8 11.8 12.8 12.8 12.8 12.8 12.8 12.8 12 | 000 | 22.2 | | 20.6 | | 23.1 | 10.4 | 10.4 | 22.6 | | 20.6 | | 21.0 | 22.8 | 22.0 | _ | 20.7 | | | |
| 1/09 180.1 180.2 180.9 190.1 180.4 180.5 170.0 180.7 180.2 170.1 180.7 180.3 170.7 180.8 180.7 180.3 170.7 180.3 180.7 180.3 130.7 180.3 130.7 180.3 130.7 180.3 130.7 180.3 180.4 180.5 180.6 180.8 1 | | • | | • | | • | • | ; | • | , | , | • | | | • | (| • | | • | |
| 1507 1508 1108 1208 1407 1809 1408 1508 1508 1508 1409 1409 1508 1508 1508 1508 1508 1508 1508 1508 | 7000 | 6 | | 16.2 | | # I | * | 14.5 | 16.6 | . | 16.7 | 16.2 | 17.1 | 18.7 | 10.3 | 17.07 | 16.8 | | e 91 | 15.3 |
| 5.3 5.1 3.1 4.9 5.1 1.9 1.0 5.4 4.6 4.0 4.0 4.6 5.7 7.2 5.6 5.1 1.9 1.6 2.4 1.0 1.6 5.9 1.9 2.6 5.4 1.9 1.0 2.4 | 16080 | | 7 | 7.4 | | , e 4 4 4 7 6 7 6 | 7 6 | 16.9 | 200 | > « | 16.0 A.4 | 16.6 A.4 | 10° E | | 14:2 | 0 W | 17.0 A.0 | | 9 9 | 200 |
| 1.0 0 1.0 2.0 1.0 1.0 1.0 1.0 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1 | 20000 | 5.3 | | 3.5 | | νς - τ | 1.5 | 4 | 2. | ص د | 4 | 3 | 9 | 5.7 | 7.2 | | 5.1 | ٠. | 9.6 | 9 |
| | 25000 | 1.3 | | | : | | | i | - | 9 | | | 9 | 1.0 | 3.6 | 2.8 | 1.5 | - | 2.4 | 4.00 |

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| | AS A | FUNCTION | P | ~ | 9 | ш | FROM S | SOURCE | | | | | | | |) OMEGA | A 6.2 | 6-461 | |
|--------------------|---------|------------|------|----------|------------------------|---------------------------------------|--------------------------|-------------------------|-------------|-------|--|---------------------------------------|----------------------------|---|---------|--|-------------|-----------------------|---------------------|
| NOISE S | 9 SE SE | SUPPRESSOR | SOR | | OPERA PERA G S E | RATIONS ENGINE SINGLE GROUND | RUNUP ENGINE RUNUP | SOR RPH (Suppressed) | # ESSED) | Ī | METEOROLOGY TEMP BAR PRE: REL HUM | PRESS HUMID | # 29,92 # 29,92 # 73 | A N N N N N N N N N N N N N N N N N N N | | AIRCRAF AIRCRAF OPERATI PROFILE 28 NOV | . + 8 × 4 | CODE CODE RSION | 746 00119 A |
| (OISTANCE (FEET) | GE . | 10 20 | 20 | 96 | 3 | 25 | 9 | 7.0 | ANGLE | | (DEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 280 | 75.2 | | 70.1 | _ | 70.3 | 66.8 | 65.4 | 71.5 | 70.0 | 70.4 | 66.1 | 58.2 | 70.6 | 71.9 | 71.5 | 73.7 | _ | 69.2 | 69.1 |
| 250 | 73.0 | | 66.0 | 66.7 | 68.2 | 63,9 | 63,3 | 68.4 | 67.9 | 68.2 | 66.0 | | 68.5 | 69.8 | 69.3 | 71.4 | σ, | 67.1 | 67.0 |
| 6 T O | 68.4 | 66.0 | 63°0 | _ | 6 % 9 | 29.5 | 59.1 | 9.00 | 63.5 | 63.6 | 61.7 | • • • • • • • • • • • • • • • • • • • | \$ 00. \$ 00. \$ 00. | 65.6 | 1 6 6 9 | 69.1 66.8 | | 50 to 50 | 62.E |
| 200 | 62.9 | 3 | 61.2 | _ | 61.7 | 57.3 | 56.9 | 61.7 | 61.2 | 61.4 | 59.5 | 59.7 | 61.9 | 63.3 | 62.6 | | | 60.5 | 9 |
| 630 | 63.4 | 61. | 56.8 | _ | 59.4 | 55.0 | 54.6 | 59.3 | 58.9 | 59.0 | 57.2 | 57.4 | 9.69 | 61.3 | 68.1 | | ~ | 58.2 | 56.3 |
| 90 | 64.8 | 59.5 | 56.4 | 55.4 | 57.0 | 52.6 | 52.2 | 56.9 | 56.4 | 56.5 | 54.8 | 55.1 | 57.2 | 58.6 | 57.6 | 59.0 | TV. | 55.7 | 55.8 |
| 1990 | | | 53.8 | _ | 54.5 | 50.1 | 49.7 | 54.3 | 53.9 | 53.9 | 52.3 | 52.6 | 54.7 | 55.9 | 54.9 | 56.2 | _ | 53.1 | 53.1 |
| 1250 | | | 51.0 | _ | 51.9 | 47.4 | 47.1 | 51.6 | 51.2 | 51.1 | 49.7 | | 52.0 | 53,1 | | 53.2 | | 50.5 | 50.5 |
| 1600 | | 50 | 40.0 | _ | 2 % | 4.0 | 4 4. W | 48.8 | | 48.2 | 46.8 | 47.2 | 49.2 | 50.1 | 49.1 | 50.0 | . | 47.2 | 47.1 |
| 2000 | 0 · 0 | | D . | - | * · | ¥1. | 41.5 | 629 | 45.4 | 45.2 | 6 % 6 % | M | 9.0 | 6.9 | 6.09 | 46.7 | -4 (| | 43.7 |
| 2000 | | | | _ | | 9 . | 9 1 | 6.24 | | 41.9 | | 41.0 | 9.0 | 43.4 | 45.4 | 43.1 | | * | 39.6 |
| 3136 | | | 27.0 | _ | 7 ° 7 | 9 0 | 7 6 6 | 3.60 | | 200 | 36.9 | | 39.5 | 39.6 | 38.7 | 39.5 | ~ • | 36.6 | 35.6 |
| \$0.00 \$ | 32. | | 29.6 | | 4 4 5 F | 26.7 | 26.4 | 30. A | 20.6 | 20.00 | 26.0 28.5 | * ° ° | 31.4 | 30.7 | D . W | 70.0 | 2 P | 28.1 | 26.4 |
| 6300 | 26. | | 24.8 | | 27.3 | 22.2 | 22.0 | 26.4 | | 24.8 | 23.9 | | 26.9 | 26.0 | 25.7 | 25.1 | | 23.6 | 21.6 |
| 9000 | 55.5 | 1 22.4 | 20.6 | _ | 23.3 | 18.4 | 10.4 | 22.6 | 21.0 | 26.8 | | 21.0 | 22.9 | 22.2 | 21.0 | 21.0 | 20.8 | 20.0 | 10.4 |
| 10000 | | | 16.2 | | 9 | 40.4 | 14.5 | 18.6 | 17.0 | 16.7 | 16.2 | 17.1 | 18.7 | 18.2 | 17.7 | 46.4 | | 7.4 | 15.1 |
| 12500 | | 13.8 | 11.0 | 12.8 | 7 4 4 | 10.2 | 70.5 | 14.3 | 13.0 | 2 | 12.2 | 13. | 14.4 | 14.5 | 13.6 | 12.8 | | 12.6 | 12.3 |
| 16900 | | | 1: | | 10.0 | 5.0 | 6.2 | 6.6 | 8 8 | 8.3 | 9.1 | 9 | 10.0 | 10.8 | 9.8 | 6.9 | 6.0 | 0.6 | 9 |
| 20110 | 5.3 | | 3.1 | | 5, 1 | 1.5 | 1.8 | 5.4 | • | | ÷ | 9 | 2.4 | 7.2 | 2.0 | 5.1 | 5.2 | 2.6 | 9 |
| - | | | | | | | | | | | | | | • | | | | | |

| | OIS | | | FEET | | | | | | | | | | |) TEST | 5A 8.2 I 77-74 | 77-746-001 | + |
|------------|----------------|------------|--|-------------|-----|-----------------------------------|--------------------------|-------------------------|------|--------------------------------------|--------------|------|-------------------------|----------|----------|--|-----------------------|---------------------|
| NOISE SO | NOTSE NOTSE | SUB SUB | E SOURCE/SUBJECT: F-5 NOISE SUPPRESSOR AF 32A-10 | | OPE | TION : NGINE INGLE ROUND | RUNUP ENGINE RUNUP | 86% RPH (SUPPRESSED) | 6 | METEOROI TEM BAR BEL REL | PRES HUMI | #29° | 59 F 92 IN H 70 X | 9 I | | AUN UL AIRCRAT CODE 7 OPERATION CODE 0 PROFILE VERSION 28 NOV 79 | CODE CODE ERSIO | 746 00119 N A |
| | <u> </u> | | | | d d | =PNLT | | | A=AL | | | | T=ALT | ורז | | | | 1 |
| | . پ خ | • | | | | | | | | | | • | | | • | | ٠ | - |
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| < Z | - - | • • | | | • • | - - | • • | •• | • • | | | • • | × | • • | : • | | • • | - |
| . ق | j . | • | • | • | • | • | • | • | • | • | • | • | x. | • | d | • | • | - |
| ندا لـ |) 20 (| • • | | • • | • • | - • | • • | • • | • • | | • • | • • | × | • • | • • | ۵ | • • | - |
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| • | ن . 8 | • | • | • | • | • | • | • | • | • | • | • | AT | • | • | • | • | • |
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| | 1/3 OCTAVE DISTANCE = | TAVE | BAND 250 | FEE | ESSUKE | ונעני | | | | | | | | | | TEST | | 2 46-001 | |
|--------------------------|--------------------------|--------------------------|-------------|----------|----------------------------|-------------------------|-------------------------------|-------------------|-------|----|-----------------------------------|---|-----------------------------|--------------|------|---------------------------------------|---|------------------------|-------------------|
| NOISE F-5 AF32 | • w . | /SUBJECT 1 SUPPRESSOR | - & | | OPERA HIL Sin Gro | TTON: ITARY GLE E | * POWER ENGINE RUNUP (S | R 101% (Suppre | SSE | | HETEO TEN BAR BEL REL | HETECROLOGYS TEMP BAR PRESS REL HUMID DELTA N = | 7 = 29 0 = 29 0 0 0 0 | 0000 F124 | HG | P P P P P P P P P P P P P P P P P P P | RUN UZ AIRCRAFT OPERATION PROFILE VI 26 NOV 79 PAGE CZ | CODE CODE ERSION | 746 00104 A |
| BAND CENTER FREQ (HZ) | ER | - | 9 | 20 | R | 3 | 9. | 99 | ANGL! | 9 | EGREES 90 10 | S) 00 11 | 120 | 130 | 1 1 | 0 150 | 160 | 170 | 180 |
| S. | | « | 88 | ** | 87 | 9 | | ** | | | | | | | σ | | | 9 | g |
| | | | 87 | | . 89 | 9 6 | | 97 | | | | . ~ | | | 'n | | | 6 | , 60 10 |
| 9 | | 99 | 87 | 69 | 87 | 88 | | 96 | | | | - | | | 5 | | | 86 | 93 |
| 100 | | 95 | 91 | 81 | 90 | 23 | | 81 | | | | . | | | ∞ • | | | 87 | 80 |
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| 70 D 70 D 70 D | | 2. 2.2 | 2 <u>9</u> | 76 | 2 2 | . P. | 75 | . 52 | 77 | 27 | 000 | 7 0 | 77 77 | 262 | ۰ ۸ | 20 9 | 75 | | |
| 25.0 | | 75 | 26 | 7. | 73 | 72 | | 72 | | | | . ~ | | | . ~ | | | 77 | 77 |
| 315 | | 14 | 75 | 72 | 72 | 73 | | 7.1 | | | | 3 | | | ~ | | | 7.7 | 72 |
| 904 | | 75 | 11 | 72 | 75 | 23 | | 70 | | | | 4 | | | ~ | | | 72 | 69 |
| 200 | | 69 | 20 | 29 | 11 | 11 | | 68 | | | | -4 | | | ف | | | 69 | 29 |
| 636 | | 99 | 69 | 19 | 29 | 20 | | 99 | | | _ | σ. | | | • | | | 67 | 65 |
| 900 | | 69 | 2 | 29 | 7.1 | 72 | | 69 | | | _ | σ | | | ٩ | | | 69 | 89 |
| 1000 | | 0. | 7.7 | 29 | 2 | 69 | | 69 | | | | 9 | | | ٠ | | | 69 | 99 |
| 1250 | | 69 | 71 | 67 | 7 | 2 | | 69 | | | • | , | | | • | | | 2 | 69 |
| 1660 | | 69 | 21 | 90 | 69 | 69 | | 10 (| | | | | | | • | | | 29 | 29 |
| | | 4 4 | 2 9 | 0 4 | 1 8 7 4 | * 0 | | 9 4 | | | | | | | 9 4 | | | 9 | 0 M |
| 3150 | |) (| , Y | 1 |) \(\frac{4}{2} \) | 6.7 | | * 4 | | | | . M | | | 9 4 | | | 2 4 | 3 3 |
| 9004 | | 49 | 65 | 61 | 62 | 65 | | 62 | | | _ |) M | | 2 | • | | | 9 | 200 |
| 5000 | | 58 | 29 | 26 | 25 | 23 | | 25 | | | | • | | | , įv | | | 22 | 22 |
| 6300 | | 59 | 26 | 52 | 24 | 26 | | 53 | | | | - | | | N. | | | 53 | 53 |
| 8000 | | 58 | 53 | 27 | 20 | 53 | | 20 | | | | • | | | S | | | 21 | 20 |
| 10000 | | 20 | 2 | 20 | 20 | 22 | | 20 | | | - | ~ | | | ĪV. | | | 25 | 25 |
| OVERALL | | 93 | * | #6 | 93 | * | † 6 | 93 | 26 | 26 | 26 | 26 | 76 76 | σ | ō | 96 | 86 | 66 | 66 |
| 167673316666 | | • | | | | ****** | | | | | | | | | | | | | |

| | AS A F | FUNCTION OF | | ш | AND DIS | DISTANCE | FROM SC | SOURCE | | | | | | | | OMEGA TEST | OMEGA 8.2 Test 77-746-881 | 6-081 | |
|---------------------|---|-------------------------|--------------|--------------|--|--|---|----------------|----------------|---|---|----------------|----------------------------|---------|------|--|------------------------------|-------------------------------|---------------------|
| NOISE SO | 8 6 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | SUBJECT & SUPPRESSOR | 1 | | OPERATIONS MILITA SINGLE GROUNG | ATION: MILITARY SINGLE E GROUND R | ATION: MILITARY POWER SINGLE ENGINE GROUND RUNUP (| 101× | RPH (SSED) | # 60 60 60 60 60 60 60 60 60 60 60 60 60 6 | HETEOROLOGYS TEMP BAR PRES REL HUMI DELTA N = | PRESS HUMID | = 59.92 = 29.92 = 70 | Z IN HG | | -) RUN 02) AIRCRAF) OPERATI) PROFILE) 26 NOV) PAGE 0 | | CODE 7 N CODE 6 VERSION | 746 00184 - A |
| (OISTANCE ((FEET) | | 07 | 10 20 3 | 98 | 3 | 26 | 99 | • | ANGLE 86 | | (DEGREES) 90 100 | 81 | 120 | 130 | 27 | 150 | 160 | 170 | 3 |
| 200 | 97.9 | 99.0 | 97.1 | _ | 9 % 6 | 96.7 | 196 | ø | 99.2 | 98.7 | 96.9 | 98.7 | 98.8 | 7.66 | 99.6 | 99.5 | 99.4 1 | 100.2 1 | 10001 |
| 250 | 95.6 | 96.8 | 95.0 | 95.7 | 96.0 | 94.5 | 93.9 | • | 97.1 | 96.6 | 96.8 | 96.6 | 96.7 | 97.6 | 97.5 | 97.4 | 97.3 | 96.1 | 98.1 |
| 212 | 93.2 | 92.2 | 90.3 | | 92.2 | 89.8 | 1.08 | | 92.8 | 92.1 | 92.4 | 92.2 | 92.4 | 98.0 | 93.2 | 93.8 | 92.9 | 93.9 | 93.6 |
| 200 | 98.6 | 89.8 | 87.8 | _ | 8 % | 87.3 | 96.6 | σ, | 90.3 | 9.69 | 90.0 | 89.8 | 89.9 | 91.0 | 6.06 | 9.0 | 91.5 | 91.6 | 91.5 |
| 9 0 9 0 9 0 | 86. 0 3. 3 | 87.2 84.6 | 85.2 82.6 | 86.1 83.4 | 87.2 84.6 | 84.7 | 84.0 81.4 | | 87. ? 85. 1 | 87.1 | 87.4 | 87.2 84.6 | 87.3 84.7 | 85.7 | 88.3 | 88.3 | 87.9 85.2 | 89.8 86.4 | 66. 3 |
| 6 | A | 4. | 70. | 7-04 | 4.4 | 70, 2 | 78.6 | a | 42.4 | | | 0 | -64 | | | 10.1 | 4.04 | 7.24 | |
| 1250 | 77.3 | 78.8 | 76.5 | | 78.8 | 76.0 | 75.4 | 78.6 | 79.0 | 78.4 | 78.8 | 78.5 | 78.6 | 79.6 | 79.5 | 79.7 | 79.8 | 60.2 | 60.1 |
| 1600 | 74.0 | 75.5 | 72.9 | | 75.5 | 72.4 | 72.1 | 5 | 75.4 | 74.8 | | 74.9 | 75.0 | 75.9 | 75.9 | 75.9 | 75.4 | 76.5 | 76.4 |
| 2010 | 70.7 | 72.1 | 69.0 | 71.1 | 72.0 | 699 | 58.6 | | 71.4 | 76.9 | 71.2 | 70.9 | 70.9 | 71.8 | 71.8 | 71.6 | 71.3 | 72.5 | 72.3 |
| 22.52 | 0 c | 62.4 | | | 9 4 | . T | • | ~ ~ | 62.6 | 90 | 67.8 | 66.5 | 60.5 | 67.3 | 67.3 | 2.79 | 60.0 | 66.6 | 67.6 |
| | 56.7 | 58.0 | 90.00 | | 50.0 | 55. | 96.90 | , ₋ | 57.5 | 57.3 | | 96.6 | 2.95 | 56.1 | 26.4 | 56. A | 56.9 | 57.1 | 56.6 |
| 5000 | 50.6 | 52.7 | 40.2 | | 52,7 | 9.64 | 49.1 | | 51.7 | 51.6 | | 20.7 | 50.4 | 50.0 | 50.6 | | 51.1 | 51.3 | 50.6 |
| 6300 | 43.7 | 45.6 | 41.3 | _ | 46.0 | 43.0 | 42.2 | • | 45.2 | 45.1 | 45.2 | 43.9 | 43.9 | 43.6 | 44.4 | 44.6 | ** | 15.1 | 7 |
| 9009 | 30.2 | 40.5 | 35.1 | 3 9.8 | 40. 3 | 36.6 | 35.9 | ~ | 39.0 | 39.4 | 39.9 | 36.7 | 37.7 | 38.4 | 39.1 | 38.9 | 39.5 | 39.8 | 38.7 |
| 10000 | 31.3 | 34.0 | 27.2 | _ | 33.6 | 30.5 | 28.8 | 32.3 | 32.2 | 32.5 | 33.1 | 31.2 | 38.8 | 38.3 | 31.6 | 31.6 | 31.5 | 33.8 | 31.4 |
| 12500 | 23.2 | 26.8 | 17.3 | _ | ; | 21.6 | 19.5 | 23.5 | 22.1 | 23.3 | 23.7 | 20.0 | 21.2 | 21.0 | 21.8 | 21.3 | 21.5 | 23.1 | 19.7 |
| 16000 | 13.2 | 16.3 | 7.3 | 14.0 | 15.5 | 9.0 | 10.1 | 12.4 | 9.0 | 11.9 | 12.7 | 9.0 | 10.5 | 2.9 | 7.6 | 7.6 | 7.6 | 9.9 | 7.5 |
| 20006 | ۳ ۳ | 7.1 | | _ | ÷ | | ~ | 1.3 | | • | 1.7 | | • | | | | | | |

| NOISE SOURCE/S F-5 NOISE AF32A-18 | | FUNCTION | 8 | W | AND DIST | ANCE | ¥ 0 | OH SOURCE | | | | | | | |) TEST | 77-74 | 77-746-001 | |
|---|----------------------|---|------|------|--|------|-------------------------------|---------------|---------------|-----------|---|----------------|------------------------|-------|--------|---|----------------|-----------------------|---------------------|
| | RCE/S OISE -18 | SOURCE/SUBJECT: 5 NOISE SUPPRESSOR 32A-18 | SOR | | OPERATIONS MILITA SINGLE GROUND | | RY POWER ENGINE RUNUP (| 181% UPPRE | RPH (SSED) | ¥ 0 | METEOROLOGY : TEMP BAR PRES REL HUHI | PRESS HUMID | = 59 =29.92 = 70 | FHX | 9 I | AIRCRAF OPERATI PROFILE 26 NOV PAGE E | F0 - N | CODE CODE RSION | 746 00104 - A |
| DISTANCE (FEET) | - | 07 | 28 | 88 | 3 | 50 | 99 | 22 | ANGLE 60 | (DEGREES) | KEES) 160 | 116 | 120 | 134 | 140 | 150 | 160 | 170 | 188 |
| 2 C C C C C C C C C C C C C C C C C C C | 99.1 | - | 97.1 | 98.4 | 100.5 | 97.4 | 96.1 1 | 100.4 | 99.2 | 98.7 | 98.9 | 98.7 | 98.6 1 | 101-1 | 101.0 | | _ | 101.7 | 101.5 |
| 318 | 9.46 | 95.7 | 92.7 | | 3 | 92.8 | 91.5 | 96.2 | 95.0 | 9.40 | 94.7 | 94.5 | 9.46 | | 96.8 | 96.4 | | 97.5 | 97.3 |
| 7 to 0 | 92.2 | 93°3 | 90.3 | | 93.7 | 96.4 | 89.1 86.6 | 93.8 91.4 | 92,8 | 92.1 | 95.4 | 92°2 89°8 | 92.4 | 94.7 | 94.6 | 94.2 | | 95.3 | 95.2 |
| 900 | 67.1 | 66.3 | 85.2 | | 86.7 | 85.3 | 94.8 | 96.6 | 87.7 | 87.1 | 87.4 | 87.2 | 87.3 | | 69.7 | 89.5 | | 90.5 | 3.0 |
| 909 | 84.5 | 85.7 | 95.6 | • | 96.1 | 82.7 | 81.4 | 86.1 | 85.1 | 94.4 | 84.8 | 84.6 | 84.7 | | 87.8 | 86.7 | | 87.8 | 87.7 |
| 1000 | 81.7 | 82.9 | 79.8 | | 8 3, 3 | 79.9 | 78.6 | 83.4 | 82.4 | 81.7 | 82.1 | 81.9 | | 34.4 | 64.3 | 83.9 | 84.0 | 85.1 | 84.9 |
| 1250 | 78.5 | 79.9 | 76.5 | _ | 80.0 | 76.6 | 75.4 | 90.0 | 79.0 | 78.4 | 78.8 | 78.5 | | 81.0 | 80.9 | 86.9 | 900 | 81.7 | 61.5 |
| 1500 | 75.2 | 76.6 | 72.9 | 75.0 | 77.0 | 73.0 | 72.1 | 76.4 | 75.4 | 76.8 | 75.2 | 7. 6. 6. | 75.0 | 77.3 | 77.2 | 77.1 | 76.9 | 78.0 | 7.5 |
| 2568 | 67.6 | 2.69 | 6.9 | | | 65.6 | 96.6 | 68.2 | 67. 10 | 66.8 | 67.0 | 66.5 | | 66.7 | 66.6 | 68.4 | 6.8.4 6.8.4 | 69.5 | 69.2 |
| 3150 | 63.2 | 64.7 | 6u.2 | | 65.1 | 61.1 | 60.0 | 63.8 | 62.6 | 62.4 | 62.5 | 61.8 | | 63.6 | 63.6 | 63.3 | 63.6 | 64.4 | 64.1 |
| 0004 | 57.6 | 59.3 | 54.6 | _ | 59.6 | 55.8 | 54.9 | 56.3 | 57.5 | 57.3 | 57.3 | 56. 6 | | 57.3 | 57.5 | 57.8 | 58.1 | 58.3 | 57.7 |
| 20 00 | 51.3 | 53.4 | 48.2 | _ | 53.6 | 50.0 | 49.1 | 52.1 | 51.7 | 51.6 | | 50.7 | | 50.9 | 51.5 | 51.7 | 52.1 | 55.5 | 51.4 |
| 6300 | 44.2 | 46.0 | 41.3 | _ | 4 6. 6 | 43.3 | 45. 2 | 45.5 | 45.2 | 45.1 | 45.2 | 43.9 | 43.9 | 44.2 | 6.44 | 45.0 | 4.2.4 | 45.6 | * |
| 000 | 38.5 | 40.7 | 35.1 | 39,9 | 40.6 | 36.6 | 35.9 | 40.0 0.0 | 39.0 | 39.4 | | 36. 7 | 37.7 | 38.7 | 39.4 | 39.1 | 39.8 | 40.1 | 38.9 |
| 10086 | 31.3 | | 27.2 | _ | m | 30.5 | | 32.3 | 32.2 | 32.5 | 33,1 | 31.2 | 30.0 | 30.3 | 31.6 | 31.4 | 31.5 | 33.8 | 31.4 |
| 12500 | 23.2 | | 17.3 | 24.6 | 24.3 | 21.6 | 19.5 | 23.5 | 22.1 | 23,3 | 23.7 | 20, 8 | 20.5 | 21.8 | 21.8 | 21.3 | 21.5 | 23.1 | 19.7 |
| 16000 | 13.2 | 16.3 | 7.3 | _ | 'n | 9. | _ | 12.4 | 9,0 | 11.9 | 12.7 | . | 10.5 | 6.7 | 7.6 | 7.6 | 7.6 | 9.9 | 7.5 |
| 2000 | M. M. | | | _ | | | | 1.3 | | 9 | 1:1 | | • | | | | | | |
| . 25 9 00 | | | | | | | | | | | | | | | | | | | |

| | AS | A FUNCTION OF | N P | NG L | E AND DIS | TANCE | FROM S | SOURCE | | | | | | | | ONEGA) TEST | OMEGA 6.2 TEST 77-746-001 | 6-011 | |
|------------|---------|---------------------------------|--------|------|--|--|-----------------|----------------------------|---------------|---------|---|----------------|------------------------|---|------|---|------------------------------|----------|--------------|
| OISE AF | 8 SE SE | RCE/SUBJECT: OISE SUPPRESSOR | SSOR | | OPERATIONS MILITA SINGLE GROUNG | RATION: MILITARY POWER 1 SINGLE ENGINE GROUND RUNUP (SL | ENGINE RUNUP | R 181% RPH (SUPPRESSED) | RPH ESSED) | 2000 | METEOROLOGY TEMP BAR PRE REL HUN | PRESS HUNID | # 59 #29.92 # 70 | F N N N N N N N N N N N N N N N N N N N | | A RUN G2 A AIRCRAF OPERATI PROFILE 28 NOV | - 3 5 6 v | CODE 1 | 746 00104 |
| (DISTANCE | w | 87 | \$ | 8 | 3 | 25 | 3 | 2 | ANGLE | | (DEGREES) 90 100 | 11 | 120 | 130 | 140 | 150 | 168 | 170 | 188 |
| 200 | 82.4 | | | 83.1 | 83.6 | 81.3 | 99.9 | 82.5 | 82.7 | 82.7 | 82.8 | 82.0 | 61.9 | 82.2 | 82.5 | 82.6 | 82.8 | 83.2 | 62. |
| 250 | 80.0 | | 78 | 97 | | 79.3 | 78.7 | 4:0 | 9.00 | 95.0 | 60.7 | 79.9 | 79.8 | 88.1 | 60.6 | 9.90 | 80.7 | 81.1 | 6 |
| 612 | 2.67 | 79.7 | 76.3 | 78.9 | 7.9 | 77.1 | 9.9. | 78.3 | 78.5 | 78.5 | 78.6 | 77.8 | 77.7 | 78.1 | 78.4 | 78.5 | 78.6 | 19.0 | 78. |
| | 73.6 | | | \$ 1 | 101 | 72.7 | 200 | 7.67 | 74.2 | 76.4 | 7 6.0 | 73.7 | 73.0 | 75.9 | 76.3 | 7 0° 4 | 76.4 | 76.9 | 76.7 |
| 630 | 71.5 | | 69 | 72. | 72.6 | 4.6 | 69.9 | 71.7 | 71.9 | 71.9 | 72. | 71.2 | 71.1 | 71.5 | 71.6 | 71.9 | 71.9 | 72.4 | 72 |
| 9 | 69.1 | | | 9 | 70.2 | 68.1 | 67.6 | 69.3 | 9.69 | 9.69 | 69.7 | 69. 9 | 66.8 | 69.1 | 4.69 | 69.5 | 69.5 | 70.0 | 69 |
| 1000 | 66.7 | | | 67. | 67.7 | 65.7 | 65.2 | 6,99 | 67.2 | 67.2 | 67.3 | 66.5 | M | 66.6 | 6 | 67.8 | 67.0 | 67.5 | |
| 1250 | 64.0 | | | 6 | 65.1 | 63.1 | 62.5 | 64.3 | 64.5 | 9 • 4 9 | 64.7 | 63.8 | | 63.9 | 64.2 | 64.3 | 24.4 | 9.49 | |
| 1600 | 61.3 | 62.8 | 59.4 | 62. | 62,3 | 60.3 | 59.8 | 61.5 | 61.7 | 61.8 | 61.9 | 61.0 | | 61.1 | 61.3 | | | 61.9 | 61. |
| 200 | 58. | | | 50 | 59.4 | 57.5 | 56.9 | 58.6 | 56.8 | 56.9 | 23.0 | 56.0 | | 57.9 | 58.2 | m | | 56.6 | 56. |
| 2560 | 55.4 | | | Š | | 54.3 | 53.6 | 55,3 | 55.6 | 55.7 | 55.8 | 24.7 | 10 | 54.5 | 54.6 | | | 55.4 | 54. |
| 3150 | 51.5 | 53.1 | | 25 | 52.8 | 26. 9 | 50.3 | 51.0 | 52.1 | 55.5 | 55.2 | 51.2 | . | 50.0 | 51.1 | m | | 51.7 | 51. |
| | 47.6 | | | | | 47.1 | 46.6 | 48.0 | 46.3 | 48.4 | 49.4 | 47.3 | _ | 46.7 | 47.1 | | | 47.7 | 9 |
| 200 | 7 | | | • | , , | - P | 42. | D . | 4 | n . | 2 * 4 | 43.1 | | 42.5 | 42.9 | m (| | F. 30.51 | 1 5 |
| 9 9 9 | 34.7 | 36 | 32.8 | 36.2 | 6 W | 36.6 | 36.0 | 1 | 45.6 | 7 | 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° | 20° 0 | 36.5 | 36.1 | 34.7 | 20°4 | 39.2 | 39.1 | 36.2 |
| | | | | } | 3 | • | | | | | | | | | | | | • | |
| 1000 | 30.4 | | 28. | 31. | 31.9 | 30.5 | 29.6 | 31.3 | 31.4 | 31.6 | 31.6 | 5 | 30.2 | 30.4 | _ | • | 31.0 | 31.3 | 30.6 |
| 12500 | 25.9 | | 24. | 27. | 27.3 | 25.7 | 25.0 | 27.0 | 27.0 | 27.2 | 27.3 | m | 25.9 | 26.5 | _ | | 26.8 | 27.4 | 26.8 |
| 16000 | 21.4 | 22.6 | 20.3 | 22.4 | 22,6 | 21.0 | 20.3 | 22.7 | 22.7 | 22.7 | 55.9 | 25.2 | 21.9 | 22.8 | | 22.8 | 22.7 | 23.6 | 23.3 |
| 00002 | 17.0 | | 9 | 17. | 17.9 | 16.6 | 15.7 | 18.6 | 10.7 | 10.5 | 18.8 | ~ | 19.1 | 19.3 | | m | 19.9 | 29.1 | 20.1 |
| 7.5 | 12,1 | | | | | | • | | • | | | | | | | | | | |

| ij | MOTATION A SA | 40 | BACOR | T. C. C. | POTOTOR | 3 | 1000 | | | | | | | | OMEGA | OMEGA 8.2 | |
|------------|--|------|--------|----------|---|---------------------------------------|------------|----------------------------|------|---|-------|-------------------------|---|------|------------------------------|-----------|--------------------------------------|
| SUS SUS | NOISE SOURCE/SUBJECT: F=5 NOISE SUPPRES AF32A-18 | SSO | | 3 1,5 | RATION: MILITARY SINGLE EN GROUND RU | N N N N N N N N N N N N N N N N N N N | ER 101X | X 101% RPH (SUPPRESSED) | | METEOROLOGY TEMP BAR PRE REL HUN | | = 59 = 29,92 = 70 | 7 X X X X X X X X X X X X X X X X X X X | | AIRCI OPERCI 29 PROFIC | ~ 4 4 0 | CODE 746 N CODE 0011 VERSION A |
| İ | 87 | 28 | 30 | 3 | 99 | 99 | 7.0 | ANGL | 1 9 | DEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 |
| | 65.0 | 80. | 'n | 85.1 | 81.9 | 86.8 | 84.0 | 82.7 | 82.7 | 82.8 | 82.0 | 81.9 | 83.5 | 63.9 | 83.8 | 84.3 | 84.6 |
| - | 82.9 | 78 | 4 81. | 82 | | 78 | 61.9 | 80.6 | 80.6 | 80.7 | 79.9 | 79.8 | 81.6 | 81.8 | 81.8 | ~ | 82.6 |
| | 99 | 76 | 3 79. | | | 9 | 79.8 | 78.5 | 78.5 | 78.6 | 77.8 | 7.77 | 79.5 | 79.8 | 79.7 | ~ | 60.5 |
| | 18. | ŧ, | 2, 2 | 9 6 | | | 7.57 | * c | 40, | 6.5 | 75.7 | 75.6 | | 77.7 | 77.6 | . | 78.4 |
| 9 | 74.1 | 69 | 7 72.8 | | 71.1 | 6.69 | 73.2 | 71.9 | 71.9 | 72.0 | 71.2 | 74.4 | 72.9 | 73.2 | 73.1 | 73.55 | 73.9 |
| M | 71.7 | 67. | 3 70. | | | 67. | 70.8 | 69.6 | 9.69 | 69.7 | 68.9 | 68.8 | 70.5 | 70.8 | 70.7 | + | 71.5 |
| | | 64. | 9 | 69 | | 65.2 | 68.4 | 67.2 | 67.2 | | 66.5 | 66.3 | 68.1 | 66.3 | 68.2 | ٠ | 69.0 |
| ~ | | 62. | 2 65 | 99 | | 62. | 65.7 | 64.5 | 64.6 | 64.7 | | 63.7 | 65.3 | 9.59 | 65.5 | σ. | 66.3 |
| + 1 | | e, i | 200 | 63 | | , 0, | 63.6 | 61.7 | 61.8 | 61.9 | 61,0 | 63.8 | 62.4 1 | 62.6 | 62.6 | | 63.4 |
| • | 61. | , r | * * | 60.9 | 58.1 | , v | 0 4 0 4 | 5 10 10 10 10 | 56.9 | 59.0 | 56.0 | 27.00 | 59.3 | 59.6 | 59.5 | 60.0 | F 0 |
| | | 9 | 3 15 | | | | 53.0 | 200 | 52.2 | 52.2 | 51.0 | , 6 | 52.2 | 52.5 | 52.5 | | 2 2 2 |
| | 50. | 45 | 200 | 20.00 | | 46 | 49.2 | 48.3 | 40.4 | 48.4 | 47.3 | 47.4 | 6.24 | 48.2 | 40.4 | 10 | 6.84 |
| | 45. | 41. | 3 45. | | | | 44.0 | 44.4 | 44.3 | 44.2 | 43.1 | 42.9 | 43.4 | 43.8 | 44.0 | TV. | 4.4.4 |
| | 40. | 36. | 8 40. | 41. | | 38. | 40.0 | 39.7 | 39.9 | 39.8 | 38.6 | 38.5 | 38.7 | 39.1 | 39,3 | | 39.7 |
| _ | 36. | 32. | 8 36. | | 34. | 34.0 | 35.8 | 35.6 | 35.9 | 35.8 | 34.7 | 34.4 | 34.6 | 35.0 | 35.2 | 5 | 35.6 |
| | | 28. | 7 31. | 31. | | 29. | 31.3 | | 31.6 | 31.6 | 30.5 | 30.2 | 30.4 | 30.8 | • | | 31.3 |
| • | | 24. | 4 27. | 27. | | 25. | 27.0 | | 27.2 | 27.3 | 26, 3 | 25.9 | 26.5 | 26.9 | • | • | 27.4 |
| 4 | | 20. | 3 22. | 22. | | 20. | 22.7 | 22.7 | 22.7 | 22.9 | 22, 2 | 21.9 | 22.8 | 23.1 | | ~ | 23.6 |
| 17.6 | 18.0 | 16. | 2 17 | 17.9 | 16.6 | 15. | | 18.7 | 18.5 | 18.8 | 18.2 | 18.1 | 19.3 | 19.5 | 19.3 | | 20.1 |
| | | • | | | | | | | | | | | | | | | |

| NOISE SOURCE/SUBJECT: F-5 NOISE SUPPRESSOR AFJ2A-18 | | DISTANCE | | * | 250 FEET | 33 | . | | | | | | | | | | | | | | | | | • | • | TEST 77-746-001 | ŕ | | _ |
|---|------------|----------------------|------|------|----------|----|----------|------|--|------|---|------|------------|---|---------|------|---|-----------------------|------------------------|----|--------------------|------|-------|----|--------|---|--|--------------|---|
| | RCE OIS | RCE/SUBJ OISE SUP | BJEC | CT 8 | SOR | | į | | OPERATIONS MILITA SINGLE GROUND | TION | A A B G B B B B B B B B B B B B B B B B | POWE | ER 1 | ATION: MILITARY POWER 101% RPH SINGLE ENGINE SROUND (SUPPRESSED) | PH SED) | | METEOROLOGY S TEMP BAR PRES REL HUMI | TENP TENP BAR F | OGY: PRESS HUMID | 90 | = 59,92 = 29,92 | r H× | 9 | | PRE SE | AIRCRAFT CODE 7 OPERATION CODE 0 PROFILE VERSION 28 NOV 79 | 75 E C C C C C C C C C C C C C C C C C C | 300E S 10 | 7 46 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0 0 |
| • | i | į | ĺ | | ļ | Ĭ | į | ءً إ | P=PKLT | | | | į | | į | AEAL | DELTAN | z | | | 8 | - | TEALT | |) by | 9 | 2 | į | • |
| | | • | į | į | ! . | į | | • | | ļ | • | į | | | | | | | | | | | • | | | | | • | |
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| 10 | | • • | | | • • | | | • • | | | • • | | - - | | | • • | | • • | | | ¥ | - | • • | | ۵ | | | • • | • • |
| ò | <u> </u> | • | | | • | | | • | | | • | | • | | | • | | • | | > | • | | • | ٥ | • | | | • | |
| 20 | _ | • • | | | • • | | | • • | | | | | • | | | • • | | • • | | ≺ | | | • • | L | . • | | | • • | |
| 30 | - | • | • | ٠ | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | .AT | • | • | • | • | • | • | • | - |
| 4 | ۔ ء | • | | | • • | | | • • | | | • • | | - ' | | | • • | | • • | | | | | • • | | | • | | • • | |
| • | . – | • • | | | • • | | | • • | | | • • | | • | | | | | • • | | | | _ | • | | | | | • | . ~ |
| A 50 | - | • | | | • | | | • | | | • | | • | _ | | • | | • | | ₹ | <u> </u> | | • | Q. | • | | | • | |
| Z | - - | • • | , | , | • (| , | , | • • | • | , | • | , | • | | • | • | • | • • | • | 7 | • . | ` ; | • • | ٥ | • | | • | • | |
| | , _ | • | • | | • | • | • | • | • | • | • | • | • | , , | • | • | • | • | • | • | • | , | • | • | , | , | | • | _ |
| E 70 | ~ · | • | | | • | | | • | | | • | | - | | | • | | • | | | ⊢ | | • | | • | | | • | ~ ~ |
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| | , 8 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | × | • | • | • | • | • | • | • | • |
| E 100 | | • • | | | • • | | | • • | | | • " | | • | | | | | • • | | | .× | | • • | | • | | | • • | • • |
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| 7 110 | - · | • | | | • | | | • • | | | • | | - ' | | | • | | • • | | | × , | | • • | | ٠, | | | • • | |
| Ē 120 | | • • | • | • | • • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • •× | • | • | • | • | • | • | • | - |
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| 140 | • | • | | | • | | | • | | | • | | - | _ | | • | | • | | | – | | • | | ď | • | | • | - |
| 4 | a | • | , | , | • | , | ٠ | • | • | , | • | • | • | | • | • | • | • • | • | | | • | • • | | • | | • | • | |
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| 160 | - | • | | | ٠ | | | • | | | • | | • | | | • | | • | | | · AT | | • | | مّ | | | • | |
| 170 | 9 | • • | | | • • | | | • • | | | • • | | . • | | | | | • • | | | ٠, | - | • • | | _ | . A | | • • | - |
| • | - | • | | | • | | | • | | | • | | - | | | • | | • | | | .: | | • | | • | | | • | ~ |
| | | • • | • | • | • • | • | • | • • | • | • | • • | • | • | • | • | • | • | • • | • | • | | • | • • | • | • | • | • | • | - |
| | _ | ; | į. | i | ľ | | į | ! | ١. | į | į | | | | į | - | | İ | | | : | | 1 | | • | | | : | ? |

| TABLES | ASA | SOUND BAND 250 | D PRE | SSI | LEVEL | L (0B) | | | | | | | | | | DENTIF OMEGA TEST 7 | 1 14 7 8 | ON: | |
|------------------------------|------------|----------------------|---------|-----|---------|-----------------|----------|-------------|----------|-------------|---|----------|---|-------------|------------|--|---|------------------|-------------------|
| OISE F-5 AF32 | SUPPRES | SOR | | ò | 5 2 4 5 | ENGINE RUNUP | 0 | SS | ED)) | | ETEOROLOGY: TEMP BAR PRESS REL HUMID | | 9 . 9 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | FIN X | | AURCRAFT AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE C3 | 5 FT C ION C E VER 79 C3 | CODE 7 CODE 0 | 746 00163 A |
| (BAND CENTER (FREQ (HZ) | | 9 | 20 | 30 | 3 | 50 | 09 | 7.0 AN | NGLE (| DEGRE 90 | ES) | 110 | 120 | 130 | 931 | 150 | 160 | 170 | 180 |
| 95 | 6 | 96 | 91 | 96 | 96 | 26 | 91 | 96 | 9 | 96 | 26 | 92 | 96 | 98 | 86 | 96 | 4 | 86 | 86 |
| . 63 | 6 | 35 | 36 | 93 | 95 | 9.6 | 36 | 86 | 96 | 96 | 96 | 86 | 66 | 66 | 66 | 100 | 66 | 66 | 66 |
| 98 | 06 | 96 | 93 | 93 | 93 | 90 | 93 | 96 | 96 | 4 | 98 | 4 | 98 | 26 | 86 | 86 | 86 | 4 | 86 |
| 100 | 91 | 16 | 91 | 91 | 83 | 95 | 93 | 86 | 97 | 98 | 4 | 96 | 98 | 96 | 96 | 96 | 26 | 4 | 4 |
| (125 | 10 | 84 | 63 | 84 | 86 | 85 | 86 | 87 | 88 | 8 | 89 | 90 | 06 | 0 6 | 96 | 96 | 96 | 96 | 16 |
| 160 | ~ | 6 e | 80 · | 9 1 | 87 | * 1 | . | 9 . | 82 | 92 | 87 | 3 | 16 | 6 6 1 | 46 | 3 1 | 93 | 9 | 40 |
| 200 | * • | \$ ° | # c | ÷ « | ? c | 9 B |) E | † † 80 & | 1 K | 1 4 8 | ა დ დ | n t | 0 4 0 4 | > 4 4 | 9 4 0 4 |) 4 4 | 0 M | ך ס ≪ | o ≪ |
| 315 | 2 | 2 | 77 | 82 | 28 | 2 | 78 | 8 0 | 8 | 8 | 8 0 | 91 | 8 2 | 8 | 9 | 8 | 28 | 8 | 62 |
| 904 | 77 | 79 | 92 | 11 | 22 | 82 | 92 | 80 | 91 | 91 | 83 | 90 | 4 | 11 | 11 | 11 | 92 | 77 | 92 |
| 200 | 72 | 7, | 73 | 22 | 15 | 7.4 | 22 | 75 | 52 | 92 | 7.8 | 92 | 92 | 9. | 75 | 12 | 7,4 | 74 | 72 |
| | 71 | 73 | 70 | 72 | 73 | 73 | 71 | 7.4 | * | 73 | 92 | 73 | 74 | 73 | 73 | 73 | 73 | 72 | 11 |
| 900 | 0 / | 72 | 2 | 72 | 73 | 73 | 72 | 2 | 72 | 74 | 22 | 73 | 4 | 75 | 73 | 73 | 12 | 22 | 73 |
| 7000 | 2 | 23 | 72 | 72 | 4 | * | 73 | 74 | 5 | 73 | 22 | 73 | 22 | 4 | 73 | 23 | 4 | 4. | 73 |
| 1250 | 72 | 73 | 73 | 73 | 73 | 4 | 72 | 2 s | * * * | 73 | 76 | 23 | 4 4 | 7 3 | 25 | 73 | 4,4 | <u> </u> | 75 |
| 2000 | . 9 | 1 2 | . 69 | 70 | 69 | 69 | 69 | 2.2 | . o | 99 | 2 2 | 69 | 6 | 2 2 | 4 89 | 2 2 | 2 2 |) O | - 40 1 40 |
| (2500 | 69 | 68 | 99 | 29 | 63 | 65 | 99 | 89 | 99 | 9 | 99 | \$9 | 65 | 29 | 99 | 29 | 89 | 89 | 99 |
| (3150 | 6 3 | 67 | 62 | 99 | 9 | 63 | 65 | 29 | 63 | 62 | † 9 | 62 | 63 | 9 | 62 | 63 | 9 | 49 | 6 2 |
| 0004) | 61 | 63 | 29 | 29 | 22 | 9 | 29 | 29 | 19 | 29 | 63 | 9 | 61 | 49 | 29 | 63 | 49 | 63 | 63 |
| 2000 | 25 | 9 | ů, | 22 | 25 | 52 | 62 | 23 | 22 | 53 | 52 | 3 | 52 | 29 | 25 | 21 | 58 | 21 | 21 |
| Š | 26 | 21 | 25 | ž | 21 | 53 | 9 | 28 | ž | 53 | 53 | 53 | ž | 2 9 | 2 2 | 29 | 29 | 29 | 28 |
| 2 | 57 | 22 | 53 | 53 | 23 | 53 | 58 | 26 | 5 | 52 | 55 | 52 | 52 | 9 | 9 | 9 | 9 | 9 | 9 |
| 10000 | 22 | 52 | 5 5 | 52 | 5 5 | S S | 52 | 21 | 25 | 25 | 21 | 25 | 22 | 62 | 62 | 29 | 29 | 29 | 62 |
| (OVERALL | 16 | 86 | 66 | 66 | 66 | 66 | 100 | 103 | 103 | 103 | 104 | 104 | 104 | 104 | 105 | 105 | 104 | 105 | 105 |
|) | | | 1 1 1 1 | | **** | | Ĭ | | | - | | | | | | | | | |

| | V | FUNCTION | 8 | AMGLE | AND DIE | DISTANCE | MOGE | SOMBCE | | | | | | | | OMEGA | | | |
|-------------------------|---|---|-------|-----------------|--------------|--|-------------|--------------|---------------------------------------|-------|--|----------------|-------|-------------------------|--------------|--------|----------------|------------------------|--------------|
| NOISE SO F=5 AF32 | E SOURCE/SUBJECT F-5 NOISE SUPPRE AF 32A-18 | E SOURCE/SUBJECT! F-5 NOISE SUPPRESSO AF 32A-18 | ~ | | i w | RATION: AFTERBURNER SINGLE ENGIN GROUND RUNUP | | | OMER (SUPPRESSED) | | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | LOGY 6 | 129. | 59 F 92 IN H 70 X | 9 | PROFE | E E F O | CODE CODE RS ION | 746 00103 |
| DISTANCE (FEET) | • | 97 | 10 26 | 8 | 3 | 25 | 9 | 7.0 | ANGLE | | OEGREES) | 110 | 128 | 130 | 140 | 150 | 160 | 170 | 180 |
| 102 | 101.1 | | - | 102. | 101.5 | 161.7 | • | _ | | 105.1 | 105.8 | 105.7 | 106.2 | ا ص | _ | | 105.7 | 106.2 | 105.8 |
| 315 | 96.9 | 103.0 97.9 | | 100° 2 96° 1 | 94.6 | 99.7 | _ | | | 163.6 | 183.8 | 103.7 101.6 | 104.1 | . | | 4 | 183.7 | | 103.7 |
| 0 | 94.7 | | 95 | 95 | | 95.3 | | _ | 20 | 98.8 | 99.6 | 99.5 | 6966 | m | | | 4.66 | _ | 99.5 |
| 200 | 95.4 | | 95 | % | | 93.1 | | _ | ~ | 96.6 | 97.4 | 97.2 | 97.7 | _ | | _ | 97.2 | | 97.3 |
| 9 9 | 97.4 | 90°9 | 90.4 | 88 | 98°0 | 90.7 | 91.7 | 95.1 92.6 | 94.4 | 94.4 | 95.1 92.6 | 95° 5 | 95°5 | 94.8 | 95°2 92°7 | 94.6 | 94.9 | 95.3 92.8 | 95.0 |
| | A 6. 3 | P. 3 | 4 | * | A. 5. | AR. 2 | 86.2 | 9 | 0 | ď | 8 | 40 | 6.00 | 3 | 0 | 7.08 | 9 | • | 0 |
| 1250 | 61.0 | 62. | 81.6 | 8 2 | 62.2 | 81.9 | 82.6 | 86.7 | 85.9 | 86.0 | 86.6 | 86.6 | 87.1 | . 4 | | 86.9 | 86.6 | 67.1 | 866.8 |
| 16 00 | 77.3 | | | 7 8. | 78.5 | 78.2 | 79.1 | 83, 1 | 82.3 | 82.3 | 83.1 | 63.0 | 83,5 | 83.0 | 83.1 | | 82.8 | 83.3 | 63.0 |
| 2808 | 73.5 | | | 740 | 7 ** 4 | 74.4 | 75.0 | 79.0 | 78.2 | 78.3 | 79.1 | | 79.4 | 78.9 | 78.9 | 78.9 | 78.6 | 79.1 | 78.7 |
| 2500 | 69.5 | 71.2 | | 70. | 71.1 | 70.4 | 70.5 | 74.4 | 73.7 | 73.7 | 74.7 | | 74.8 | 74.2 | 74.2 | 74.2 | 74.0 | 74.4 | 74.1 |
| 3150 | 65.6 | | 65. | 99 | 65. 6 | 66.0 | 65.4 | 69,3 | 68.7 | 9.89 | 70.2 | 69.1 | 69.7 | 69.1 | 69.1 | 69.1 | 69.9 | 69.4 | 69.3 |
| 80 0 t | 59.7 | 61. | 60.1 | 61. | 9.09 | 60.0 | 60.1 | 63,5 | 63.6 | 63.2 | 65.1 | | 63.9 | 63.4 | 63.2 | 63.3 | 63.2 | 63.7 | 63.2 |
| 76 G G | 24.5 | | 54.0 | å. | | 52.0 | 24.0 | 57.9 | 20.0 | 57.7 | 29.6 | | 58.5 | 28.2 | 57.5 | 27.5 | 58.2 | 58.3 | 57.5 |
| | 42.7 | , | 43.2 | 4 % 0 | , , , , | 0 + + | , m . m . m | 47.2 | , , , , , , , , , , , , , , , , , , , | 47.1 | 40.0 | 9 % Y % | 56. C | 52°C | 51.5 47.1 | 51°# | 52.5 47.6 | \$2.4 \$7.8 | 21.6 |
| - - | | | | | | | | | | | • | | | | • |) • | | • | |
| 10000 | 37.0 | 39.5 | 37.8 | 39. | 39.7 | 39.3 | 37.7 | 42.2 | 42.8 | 45.4 | 44.7 | 45.8 | 43.5 | 45.9 | 42.2 | 42.1 | 42.2 | 45.6 | 41.8 |
| 12500 | 30.3 | 33 | 31.2 | 33 | 34.0 | 31.6 | 29.8 | 36.5 | 37.1 | 36.6 | 39.2 | 37.1 | 37.9 | 37.5 | 36.8 | 36.4 | 36.2 | 37.3 | 36.5 |
| 16999 | 19.9 | 24. | 18.6 | 2 to 9 | 22.6 | 22.7 | 19.4 | 20.6 | 29. 7 | 29.5 | 32.8 | 30.1 | 31.1 | 30.2 | 29.9 | 29.5 | 28.3 | 30.7 | 29.9 |
| 2000 | 7:1 | 13.4 | • | 7 6 . | 10.6 | 10.0 | 6.0 | 18.1 | 18.5 | 19.1 | 22.6 | 20.3 | 21.5 | 19.0 | 19.6 | 19.9 | 18.0 | 22.0 | 19.7 |
| 25111 | | 2.8 | | | | | | 9.7 | 60 | 9.3 | 10.8 | 6 | 19.3 | 2° | 10.7 | 7.7 | 6.9 | 11.5 | 10.5 |

See Land Box

| (!ABLE: | TONE | CORRECT | TONE-CORRECTED, PERCE | RCEIVED | D NOISE | E LEVEL | L (PN08 | <u>@</u> | | | | | | | |) IDENTI | IDENTIFICATION | FIONE | |
|--|--|---|-----------------------|---------|----------------------|-------------------------|----------------------------|-----------------------------|-------------|------|--|--------------------------|---------------|---|--------|------------------------------------|----------------|---|--------------|
| | AS A | AS A FUNCTION OF | P | ANGLE A | AND DIS | DISTANCE | FROM S | SOURCE | | | 1 | | 1 | | | TEST | 7. | 46-001 | |
| NOISE SOL | E SOURCE/SUBJECT F-5 NOISE SUPPRE AF32A-18 | E SOURCE/SUBJECT! F-5 NOISE SUPPRESSOR AF32A-18 | | | OPERA A S S | | URNER P ENGINE RUNUP | POWER IE (Suppressed) | ESSEDI | I õ | HETEOROLOGY TEMP BAR PRE REL HUM DELTA N # | LOGY E PRESS HUNIO | = 5 = 29.9 | 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 9 | AIRCRA OPERAL PROFIL PAGE | | CODE CODE RSION | 746 00103 |
| (DISTANCE (FEET) | • | 70 | 82 | 30 | 3 | 20 | 90 | 2 | ANGLE 80 | 08 | EGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 281 |
| 200 | 101.8 | | 102.2 | . • | .5 | 102.5 | 103.8 | _ | _ | _ | 106.4 | | _ | 106.3 | 106.7 | 106.3 1 | _ | 107.1 | 106.8 |
| 250 | 6 | 100.0 | | 101.0 | 56 | 100.4 | 101.7 | | | | | | | Ŋ. | . ~ | ~ | | | 104.8 |
| 010 | 96.0 | | , d | | | 700 | 94.0 | | | | , | | | | . م | | | | 1001 |
| 200 | 93.1 | 94.1 | 93.5 | . , | | 93.6 | 95.1 | | 97.5 | | v e | | | | • • | _ ~ | | | 7 9 8 T |
| 630 | 90.7 | | 91.2 | | | 91.5 | 92.8 | | 95.2 | · m | | | | 95.5 | | _ | | 96.2 | 96.0 |
| 000 | 86.1 | | 99.6 | | 9.0 | 88.9 | 90.2 | | 92.7 | - | N | | | 93.0 | 8 | | • | 93.7 | 93.5 |
| | | | | | | | | | | | | | | | | | | | |
| | 92. | 46.1 | 65.7 | 3, | 200 | 6 5 6 6 7 6 6 7 6 | 67.0 | 90.0 | 6.00 | 9.06 | 4.06 | 4.06 | 91.0 | 90.3 | 90.0 | 90.5 | 90.3 | | 96.9 |
| #62T) | 7 | 0 0 0 0 | 100 | å a | | 97.0 | 7 | | 0 0 0 0 | 900 | 200 | 97. | 5.0 | 0,0 | | | 0 0 0 | | |
| 7000 | 76.2 | 76. | 7.00 | 7.50 | | 75.1 | 76.1 | 80.1 | 79.1 | 200 | 7 6 7 | 400 | 0 ° ° ° | 700 | 7.07 | 700 | 10°0 | 7 · · · · · · · · · · · · · · · · · · · | 200 |
| (2500 | 70.2 | | 70.4 | : 4 | 70.0 | 71.1 | 71.5 | 75.4 | 7.5 | 74.6 | 75.3 | 75.0 | 75.6 | 74.9 | 75.0 | 75.1 | 74.7 | 75.3 | 75.1 |
| 3150 | 65.7 | 67. | 65.8 | ŝ | | 66.7 | 66.5 | 70.3 | 9.69 | 69.5 | 70.8 | 6 .69 | 70.4 | 69.8 | 6 - 69 | 6 % 9 | 9.69 | 70.3 | 70.0 |
| | 68.3 | 62. | 60.8 | ä | 60. 6 | 61.5 | 61.0 | 64.4 | 64.3 | 64.0 | 65.6 | 63,9 | 64.5 | 64.0 | 63.9 | 63.9 | 63.7 | 64.4 | 64.0 |
| 2000 | 54.6 | 20. | 55.1 | 3 | 55.4 | 56.0 | 55.2 | 58.6 | 58.5 | 58.5 | 60.0 | 58.3 | 58.9 | 58.6 | 58.0 | 58.0 | 58.6 | 58.9 | 58.1 |
| 9290 | T | . | | å, | | 6.64 | T . | 52.3 | 52.5 | 51.8 | 24. | 52,3 | 53.0 | 55.5 | | 51.8 | 52.6 | 25.8 | 51.6 |
| | 0 • 7 | 100 | • | ň | o F | | | • | 0 : | ?: | | : | * | • | 5.5 | 7.7 | | • | 0 |
| 19880 | 37.0 | | 37.8 | 39 | ð | 39.3 | 37.7 | 42.2 | 42. B | 42.4 | 44.7 | 42.8 | 43.5 | 65.9 | 42.2 | 42.1 | 42.2 | 42.6 | 41.8 |
| (12500 | 30.3 | 33.5 | 31.2 | m | 34.0 | 31.0 | 29.8 | 36.5 | 37.1 | 36.6 | 39,2 | 37.1 | 37.9 | 37.5 | 36.8 | 36.4 | 36.2 | 37.3 | 36.5 |
| 16086 | 19.9 | | 19.6 | 24. | å | 22.7 | 19.4 | 28.6 | 29.7 | 29.5 | 32.8 | 30.1 | 31.1 | 30.2 | 29.9 | 29.5 | 26.3 | 30.7 | 29.9 |
| 20008 | 7.1 | 13.4 | 9.0 | ÷ | ÷ | 11:0 | 6.9 | 19.1 | 18.5 | 19.1 | 22.6 | 20.3 | 21.5 | 19.8 | 19.6 | 19.9 | 10.0 | 22.0 | 19.7 |
| 25608 | | 5. | | | | | | 9.7 | 8,3 | 9.3 | 10.8 | 9. 7 | 10.3 | 7.8 | 10.7 | 7.7 | 6.9 | 11.5 | 10.5 |
| (************************************* | | | | • | | | • | | | 1 | | | | | | | | | |

| FFS NOISE SUBPRESSOR (FFTRBUNER POWER) HTEOROLOGY = 59 F A FTRBUNER POWER) HTEOROLOGY = 59 F A FTRBUNER POWER) HTEOROLOGY = 70 X NOISE SUBPRESSOR (FEET) FREL HUMID = 70 X NOISE SUBPRESSOR STATE FREL HUMID = 70 X NOISE SUBPRESSOR STATE FREL HUMID = 70 X NOISE SUBPRESSOR STATE FREL HUMID = 70 X NOISE SUBPRESSOR STATE FREL HUMID = 70 X NOISE SUBPRESSOR STATE FREL HUMID = 70 X NOISE SUBPRESSOR STATE FREL HUMID = 70 X NOISE SUBPRESSOR STATE FREL HUMID = 70 X NOISE SUBPRESSOR STATE | SE SUPPRESSOR (ATTERDIAL FOLKER) HEFFOROLOGY STAFFE SIGNAL FERP HEFFOROLOGY STAFFE SIGNAL FERP HEFFOROLOGY STAFFE SIGNAL HEFFOROLOGY STAFFE SIGNAL HEFFOROLOGY | ABLE: | A-WEI | GHTED | _ | SOUN | D LEVEL (DBA AND DISTANCE | _ | FROM S | SOURCE | | | | | | | | DENTION ONEGA | | CATIONS 8.2 -746-801 | |
|---|---|---------------------|-------|-------|------------|------|------------------------------|-------|---------------------------|--------|----------------|--------------|---|--------------|----------------|--------------|--------------|--|---|----------------------------|-----------------|
| ANGLE (DEGREES) 10 20 30 40 50 60 70 80 70 80 10 100 100 110 120 130 3.4 84.6 83.6 84.7 85.6 84.0 86.2 85.7 86.4 86.1 83.9 87.4 86.7 87.2 89.0 13.3 82.5 81.5 82.6 81.9 82.0 13.7 86.4 86.1 83.9 87.4 86.7 87.2 89.0 13.3 82.5 81.5 82.6 81.9 82.0 13.7 86.4 86.1 83.9 87.4 86.7 87.2 80.0 13.9 82.5 81.5 82.5 81.9 82.5 81.0 82.5 82.5 82.5 82.5 82.5 82.5 82.5 82.5 | ## 10 | MOISE SOL | SE SE | 82 | SSOR | | 1 6 2 | | RNER P ENGINE RUNUP | OWER | ESSE D) | <u> </u> | ETEOROL TEME BAR REL ELTA N | 000 | =29.9 =29.9 | r in x | _ | AIRC DPER DPER DPER DPER DPER | RAFT ATION ILE VE DV 79 | CODE 7 CODE 0 RSION | 46 0103 A |
| 85.5 86.7 85.6 86.7 86.0 86.2 85.7 86.5 86.2 86.0 89.5 86.8 89.3 89.3 89.0 83.4 84.6 83.6 83.6 83.1 82.5 81.5 82.6 83.6 83.1 82.6 83.6 83.1 82.6 83.6 83.1 82.8 83.2 82.6 83.2 82.6 83.1 82.8 83.6 83.6 83.1 82.8 83.2 82.6 83.1 82.8 83.2 82.8 83.4 83.6 73.6 73.2 73.6 77.7 77.2 82.0 11.8 83.9 85.4 84.7 85.2 83.1 82.8 77.2 83.4 77.2 77.2 77.2 77.2 77.2 77.2 77.2 77 | 85.5 86.7 85.6 86.7 86.0 86.1 86.2 85.7 86.4 86.2 86.9 87.4 86.7 87.2 86.9 86.9 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83 | (DISTANCE (CFEET) | | 2 | 20 | B2 | 3 | 50 | 3 | 22 | ANGLE | . ~ 6 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 63.4 64.6 63.6 64.6 64.1 64.1 64.1 64.1 65.2 67.4 66.7 67.4 66.7 67.4 66.7 67.4 66.7 67.4 66.7 67.4 66.7 67.4 66.7 67.2 77.2 77.2 61.1 79.9 79.7 77.5 78.9 77.7 77.5 78.9 77.7 77.5 78.9 77.7 77.5 78.9 77.7 77.5 78.9 76.2 77.6 77.7 77.5 78.9 77.7 77.5 78.9 76.2 77.2 78.9 77.7 77.5 78.9 76.2 78.9 67.4 67.2 67.5 78.9 76.2 77.6 77.7 77.5 78.9 76.2 78.9 76.2 78.7 77.5 78.9 77.7 77.5 78.9 76.2 78.7 76.2 78.9 77.7 77.5 78.9 76.2 78.9 60.5 77.7 77.5 78.9 76.2 78.7 76.2 78.9 76.2 78.9 76.2 78.9 77.7 77.5 78.9 76.2 78.7 78.2 78.8 78.8 78.8 78.8 78.8 78 | 83.4 84.6 83.6 84.6 84.8 84.1 83.7 88.4 88.2 85.9 87.4 86.7 87.2 86.9 86.9 86.9 87.3 87.2 86.9 86.9 87.3 87.2 86.9 86.9 87.3 87.2 87.3 87.4 84.6 87.1 87.2 87.4 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.1 87.2 87.2 87.3 87.2 87.3 87.3 87.3 87.3 87.3 87.3 87.3 87.3 | 200 | 85.5 | | 85.6 | _ | | 86.2 | 85.7 | 88.5 | 88.2 | 88.0 | | 88.8 | 89.3 | 0.68 | 89.0 | 9.69 | | 89.8 | 89.3 |
| 79.2 80.4 79.4 80.4 79.6 77.7 77.2 82.0 81.8 83.3 82.6 83.1 82.8 77.0 77.2 77.2 80.1 79.9 79.7 81.1 80.4 80.9 80.5 77.2 77.2 77.2 80.1 79.9 79.7 81.1 80.4 80.9 80.5 77.3 77.2 77.2 80.1 79.9 79.7 81.1 80.4 80.9 80.5 77.3 77.2 77.2 77.2 77.2 77.2 77.2 77.2 | 79.2 80.4 79.4 80.4 79.4 80.2 82.0 01.6 83.3 82.6 63.1 82.6 83.1 82.6 83.1 82.6 83.1 82.6 83.1 82.6 83.1 82.6 83.1 82.6 83.1 82.6 <td< td=""><td>(250 (315</td><td>83.4</td><td></td><td>83. 81.</td><td></td><td></td><td>84.1</td><td>83.7 81.6</td><td>86.4</td><td>86.2 84.1</td><td>85.9 83.9</td><td>87.4</td><td>86.7 84.7</td><td>87.2 85.2</td><td>86.9 84.9</td><td>86.9 84.9</td><td>86.9 84.9</td><td>.</td><td>87.7</td><td>87.3 85.2</td></td<> | (250 (315 | 83.4 | | 83. 81. | | | 84.1 | 83.7 81.6 | 86.4 | 86.2 84.1 | 85.9 83.9 | 87.4 | 86.7 84.7 | 87.2 85.2 | 86.9 84.9 | 86.9 84.9 | 86.9 84.9 | . | 87.7 | 87.3 85.2 |
| 77.0 78.2 77.2 78.2 77.5 77.2 80.1 79.9 79.7 81.1 80.4 80.9 80.5 72.5 73.5 75.5 75.0 77.7 77.5 78.9 78.9 78.2 78.9 78.2 78.5 77.5 78.9 77.5 78.9 78.2 78.2 78.2 78.3 78.5 78.2 78.3 78.5 78.5 78.5 78.5 78.5 78.5 78.5 78.5 | 77.0 78.2 77.2 78.2 77.6 77.7 77.2 80.1 79.9 79.7 80.1 80.4 80.9 80.5 80.6 77.8 77.2 77.2 77.2 77.2 77.2 77.2 77.2 | 004 | 79.2 | | 79 | | | 79.9 | 79.4 | 82.2 | 82.0 | 81.8 | 63.3 | 82.6 | 83.1 | 82.8 | 82.8 | | | 83.5 | 83.1 |
| Fig. 7.35 7.25 7.35 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30 | Fig. 7.55 7.56 7.56 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 | 200 | 77.0 | | 77. | | | 77.7 | 77.2 | 60.1 | 79.9 | 79.7 | 81.1 | 80.4 | 80.9 | 80.5 | 60.6 | S | 10 6 | 81.3 | 60.0 |
| 69.6 71.0 70.0 70.0 70.0 70.0 70.1 73.0 72.9 72.7 74.2 73.3 73.8 73.3 67.3 65.3 65.3 65.2 60.0 60.1 67.4 70.3 70.2 70.7 74.2 73.3 73.8 73.3 73.3 67.3 65.3 65.5 65.4 64.5 67.5 67.2 68.0 67.5 60.1 67.0 61.3 62.6 61.4 62.3 62.5 61.5 61.5 64.4 64.5 67.2 68.0 67.5 60.1 67.0 61.3 62.6 61.4 62.3 62.5 61.5 61.5 64.4 64.5 64.2 65.9 64.4 64.9 64.4 67.3 55.3 55.4 55.3 55.4 57.3 57.3 57.3 57.4 57.1 58.9 57.1 57.7 57.2 50.9 61.5 61.9 64.4 65.3 65.4 65.5 61.5 61.9 61.5 61.9 61.5 61.4 65.2 65.9 64.4 65.4 65.4 65.4 65.4 65.4 65.4 65.4 | 69.8 71.0 70.0 70.0 70.0 70.1 70.1 73.0 72.0 72.7 74.2 73.3 73.8 73.3 73.3 73.3 67.3 66.2 66.3 67.3 66.2 68.0 66.1 67.4 70.3 70.5 70.5 70.5 70.5 70.5 70.5 67.4 67.2 68.0 67.5 68.1 67.6 67.4 67.2 69.0 67.5 68.1 67.6 67.4 67.2 69.0 67.5 68.1 67.6 67.4 67.5 61.0 61.0 61.3 62.6 61.4 62.3 62.3 62.5 61.5 61.4 64.5 64.2 65.9 64.4 64.9 64.2 67.5 68.1 67.5 67.4 64.2 67.4 67.2 69.0 67.5 68.1 67.6 67.4 64.2 67.4 67.5 69.0 67.5 68.1 67.6 67.4 64.2 67.4 67.2 69.0 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 67.2 67.4 67.2 67.3 67.4 67.3 67.4 67.3 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.2 67.4 67.4 67.2 67.4 67.4 67.4 67.2 67.4 67.4 67.4 67.4 67.4 67.4 67.4 67.4 | 808 | 72.3 | | 72. | | | 73.2 | 72.6 | 75.5 | 75.4 | 75.2 | 76.6 | 75.8 | 76.3 | 75.8 | 75.8 | v =0 | | 76.5 | 76.1 |
| 67.4 68.3 67.3 68.2 68.0 68.1 73.0 72.0 72.7 74.2 73.3 73.3 73.3 67.3 68.2 68.1 68.1 67.4 70.3 71.5 70.2 72.3 73.3 73.3 73.3 67.3 68.2 68.0 68.1 67.4 70.3 70.2 70.5 71.6 70.5 71.0 70.5 71.0 70.5 64.0 64.1 64.3 65.5 65.4 67.5 67.1 67.5 64.0 67.5 68.1 70.5 71.0 70.5 71.0 70.5 61.3 62.5 61.4 62.5 61.4 67.5 64.2 65.9 64.4 67.9 67.5 61.3 62.5 61.4 62.5 61.4 67.5 61.1 61.3 62.5 61.9 61.5 61.9 61.5 61.4 61.3 62.5 61.4 64.2 67.3 62.5 61.4 64.4 64.2 67.3 67.4 67.4 67.3 67.4 67.4 67.3 67.4 67.4 67.4 67.4 67.4 67.4 67.4 67.4 | 64.6 71.8 71.8 71.8 71.8 71.8 71.8 71.8 72.9 72.7 74.2 73.3 73.8 73.3 73.8 73.3 73.8 67.3 65.2 66.1 66.1 67.4 71.2 71.2 71.5 71.5 71.8 71.8 71.8 71.8 71.8 67.8 67.1 67.1 67.1 67.1 67.1 67.1 67.1 67.1 | ; | • | | | i | ; | 1 | | | , | ; | i | | | | | | | | 1 |
| 64.3 65.5 64.5 65.4 65.2 65.4 64.5 67.6 67.2 63.8 67.5 68.1 67.6 61.3 62.6 61.4 62.3 62.3 62.5 61.5 64.4 64.5 64.2 65.9 64.4 64.9 64.4 64.5 57.3 53.2 53.1 54.9 64.4 64.5 64.2 65.9 64.4 64.9 64.4 64.9 57.3 53.4 53.6 54.4 57.3 57.4 57.1 58.9 57.1 57.7 57.2 59.4 51.6 51.6 51.6 51.6 51.6 51.6 51.6 51.6 | 64.3 65.5 64.5 65.4 65.2 65.4 64.5 67.5 67.4 67.2 68.8 67.5 68.1 67.6 67.4 64.5 61.3 62.6 61.4 62.3 62.3 62.5 61.5 64.4 64.5 64.2 65.9 64.4 64.9 64.2 67.4 64.2 65.9 64.4 64.9 64.4 64.2 67.4 64.2 65.9 64.4 64.9 64.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 64.2 67.4 67.4 67.2 67.4 67.4 67.2 67.4 67.4 67.4 67.4 67.4 67.4 67.4 67.4 | 1000 | 69.6 | | 70°E | | 9 6 | 7.0.7 | 70.1 | 73.0 | 72,9 | 72.7 | 74.2 | 73.3 | | 73.3 | 73.3 | m u | 73.3 | 73.9 | 73.5 |
| 61.3 62.6 61.4 62.3 62.3 62.5 61.5 64.4 64.5 64.2 65.9 64.4 64.9 64.4 57.9 59.2 58.1 59.8 59.1 59.3 58.2 61.0 61.1 61.8 62.5 61.9 61.5 61.9 54.2 54.3 58.4 55.3 58.6 57.8 57.3 57.4 57.1 58.9 57.1 57.7 57.2 51.4 51.6 51.8 51.4 57.4 57.1 58.9 57.1 57.7 57.2 51.4 51.6 51.8 51.4 57.9 51.8 57.3 57.3 57.4 57.1 58.9 57.1 57.7 57.2 51.4 51.6 51.8 51.4 57.9 51.8 57.3 57.3 57.3 57.3 57.4 57.1 58.9 57.1 57.7 57.2 51.4 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 | 61.3 62.6 61.4 62.3 62.3 62.5 61.5 64.4 64.5 64.2 65.9 64.4 64.9 64.6 64.2 57.7 57.2 59.2 58.1 59.8 59.1 59.3 58.2 61.0 61.1 61.8 62.5 61.9 61.9 61.9 61.9 61.6 51.5 51.9 51.9 51.1 51.0 51.1 61.8 62.5 61.9 61.9 61.9 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 | 1600 | 64.3 | | 64.0 | 6.0 | 65.2 | 65.4 | 64.0 | 67.5 | 4.29 | 67.2 | 68.8 | 67.5 | 68.1 | 67.6 | 67.4 | | 67.5 | 100 | 67.5 |
| 57.9 59.2 58.1 59.8 59.2 61.0 61.1 60.8 62.5 60.9 61.5 60.9 54.3 55.3 55.3 55.6 55.6 55.7 57.3 57.4 57.1 58.9 57.1 57.2 50.4 57.1 57.2 57.2 50.4 57.1 57.4 57.1 57.2 57.2 57.2 57.2 57.2 57.2 57.2 57.1 57.4 57.1 57.4 57.1 57.4 57.1 57.2 57.6 57.1 57.4 57.1 57.2 57.6 57.1 57.7 57.2 57.1 57.6 57.1 57.2 57.1 57.2 57.6 57.1 57.4 57.1 57.6 57.1 57.1 57.2 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.2 57.1 57.1 57 | 57.9 59.2 58.1 59.3 58.2 61.0 61.1 61.9 61.9 61.9 61.9 61.9 60.9 <td< td=""><td>0002)</td><td>61.3</td><td></td><td>61.4</td><td>62</td><td>62,3</td><td>62.5</td><td>61.5</td><td>64.4</td><td>64.5</td><td>54.5</td><td>62.9</td><td>64.4</td><td>6.49</td><td>64.4</td><td>2.49</td><td>~</td><td>64.3</td><td>64.8</td><td>2.49</td></td<> | 0002) | 61.3 | | 61.4 | 62 | 62,3 | 62.5 | 61.5 | 64.4 | 64.5 | 54.5 | 62.9 | 64.4 | 6.49 | 64.4 | 2.49 | ~ | 64.3 | 64.8 | 2.49 |
| 54,3 55,6 54,4 55,3 55,6 55,8 54,5 57,3 57,4 57,1 58,9 57,1 57,7 57,2 50,4 51,6 51,5 51,5 51,6 51,6 51,6 51,6 51,6 | 54,3 55,6 54,4 55,3 55,6 55,8 54,5 57,3 57,4 57,1 58,9 57,1 57,7 57,2 56,7 56,4 55,6 51,4 51,6 51,6 51,6 51,6 51,6 51,6 51,6 51,6 | (2500 | 57.9 | | 58.1 | _ | 59.1 | 59.3 | 58.2 | 61.0 | 61.1 | 60.8 | | 60.9 | 61.5 | 60.09 | 9.09 | 9 | 60.6 | 61.2 | 60.5 |
| 46.1 47.4 46.2 47.2 47.6 47.9 46.5 49.0 49.1 40.7 50.6 40.6 40.6 40.6 40.6 40.6 40.6 40.6 4 | \$\frac{4}{4}\frac{1}{4}\frac{7}{6}\frac{4}{6}\frac{1}{2}\frac{1}{4}\frac{7}{6}\frac{1}{4}\frac{1}{6}\frac{1}{4}\frac{1}{6}\frac{1}{4}\frac{1}{6}\frac{1}{4}\frac{1}{6}\frac{1}{4}\frac{1}{6}\frac{1}{4}\frac{1}{6}\frac{1}{4}\frac{1}{6}\frac{1}{4}\frac{1}{6}\frac{1}{4}\frac{1}{6}\frac{1}{6}\frac{1}{4}\frac{1}{6}\frac{1}{4}\frac{1}{6 | 3126 | 54° M | | 7. | _ | 55.0 | 55.0 | יי פיים מיים | 57.3 | 57.4 | 57.1 | | 57.1 | 57.7 | 57.2 | 56.7 | 56.8 | 57.1 | 57.3 | 56.5 |
| 41.7 42.9 41.8 42.7 43.3 43.5 42.0 44.6 44.6 44.2 46.1 44.1 44.9 44.4 37.7 39.0 37.8 38.9 39.4 39.5 38.1 40.6 40.9 40.5 42.4 40.6 41.2 40.8 33.6 34.9 33.7 39.0 33.7 34.9 35.2 35.3 34.0 36.8 37.0 35.7 36.5 36.7 37.4 37.0 29.3 30.7 29.6 30.7 30.9 30.8 29.8 32.8 33.0 32.8 34.4 33.0 33.6 23.2 25.0 26.4 25.5 26.6 26.5 26.3 25.7 28.9 29.0 28.9 30.4 29.3 29.8 29.5 20.9 20.9 29.0 28.9 20.4 29.3 29.8 29.5 20.9 20.9 20.4 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 | 41.7 42.9 41.8 42.7 43.3 43.5 42.8 44.6 44.6 44.2 46.1 44.1 44.9 44.4 43.7 37.8 38.9 39.4 39.5 38.1 40.8 40.9 40.5 42.4 40.4 41.2 40.8 40.2 33.6 34.9 33.7 39.8 38.9 35.2 35.3 34.0 36.8 37.8 35.7 38.9 33.7 29.6 38.7 38.9 38.2 29.8 32.8 33.0 32.8 34.4 33.0 33.6 33.2 22.9 25.0 26.4 25.5 26.6 26.6 26.3 25.7 28.9 29.8 29.8 29.8 29.8 29.8 29.4 29.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20 | 2000 | 46.1 | | 46.2 | | 47.6 | 6.24 | 46.5 | 0.04 | | 48.7 | 50.6 | 48.6 | 40.4 | 48.3 | 48.2 | o #1 | 4 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 48.9 | 25.6 |
| 37.7 39.0 37.8 38.9 39.4 39.5 38.1 40.8 40.9 40.5 42.4 40.4 41.2 40.8 33.6 34.9 33.7 38.9 35.2 35.3 34.0 36.8 37.0 35.8 33.0 32.8 34.4 33.0 33.6 23.2 29.3 38.7 29.6 38.7 38.9 30.8 29.8 32.8 33.0 22.8 34.4 33.0 33.6 33.2 25.0 26.4 25.5 26.6 26.5 26.3 25.7 28.9 29.0 28.9 38.4 29.8 29.8 29.5 28.9 28.9 22.1 25.5 22.8 22.8 22.8 22.8 22.8 22.8 22.8 | 37.7 39.0 37.8 38.9 39.4 39.5 38.1 40.8 40.9 40.5 42.4 40.4 41.2 40.8 40.2 33.6 34.9 33.7 34.9 35.2 35.3 34.0 36.8 37.0 35.7 38.5 36.5 32.9 33.0 25.8 32.8 33.0 32.8 34.4 33.0 33.6 33.2 32.9 25.0 26.4 25.5 26.6 26.6 26.3 25.7 28.9 29.0 28.9 30.4 25.3 29.8 22.9 20.9 22.1 21.6 22.5 22.8 21.9 21.8 25.2 26.4 25.8 26.2 26.0 26.1 16.9 18.0 18.0 18.3 17.8 18.1 21.8 21.5 21.7 22.7 22.4 22.7 22.4 22.7 22.7 22.7 22 | (6300 | 41.7 | | 41.0 | _ | 4 30 33 | 43.5 | 42.0 | 44.6 | 4.6 | 44.2 | 46.1 | 4.4 | 4.0 | | 43.7 | | 44.5 | 4.4.4 | 43.4 |
| 33.6 34.9 33.7 34.9 35.2 35.3 34.8 36.8 37.8 35.7 36.5 36.7 37.4 37.8 29.3 38.7 29.6 38.7 38.9 30.8 29.8 32.8 33.0 32.8 34.4 33.8 33.5 33.2 25.8 26.4 25.5 26.6 26.5 26.3 25.7 28.9 29.8 29.8 29.5 29.5 20.9 22.1 21.6 22.5 22.3 21.9 21.8 25.2 25.1 25.2 26.4 25.8 26.2 26.0 | 33.6 34.9 33.7 34.9 35.2 35.3 34.0 36.8 37.0 35.7 36.5 36.7 37.4 37.0 36.5 29.3 30.7 29.6 30.7 30.9 30.8 29.8 32.8 33.0 32.8 34.4 33.0 33.6 33.2 32.9 25.0 26.4 25.5 26.6 26.6 26.3 25.7 26.9 29.0 28.9 30.4 29.3 29.8 29.5 29.4 20.9 22.1 21.6 22.5 22.3 21.9 21.8 25.2 25.1 25.2 26.4 25.8 26.2 26.0 26.1 16.9 18.0 18.5 18.3 17.8 18.1 21.8 21.5 21.7 22.7 22.4 22.8 22.8 22.5 22.9 | 0000 | 37.7 | | 37.8 | _ | 39.4 | 39.5 | 38.1 | 40.8 | 6 • 0 + | 40.5 | 45.4 | †0. ¢ | 41.2 | | 40.2 | N. | 40.7 | 40.8 | 39.9 |
| 29-3 30.7 29-6 30.7 30-9 30.8 29-8 32.8 33.0 32.8 34.4 33.0 33.6 33.2 25.0 25.0 26.4 25.5 26.6 26.5 26.3 25.7 20.9 29.0 20.9 30.4 29.3 29.8 29.5 20.9 22.1 21.6 22.5 22.3 21.9 21.8 25.2 25.1 25.2 26.4 25.8 26.2 26.0 | 29.3 30.7 29.6 30.7 30.9 30.8 29.8 32.6 33.0 32.8 34.4 33.0 33.6 33.2 32.9 22.9 25.0 26.4 25.5 26.6 26.6 26.3 25.7 20.9 29.0 20.9 30.4 29.3 29.8 29.5 29.4 20.9 22.1 21.6 22.5 22.3 21.9 21.8 25.2 25.1 25.2 26.4 25.8 26.2 26.0 26.1 16.9 10.0 10.6 10.3 17.8 10.1 21.8 21.5 21.7 22.7 22.4 22.4 22.6 22.5 22.9 | 00001 | 33.6 | | 33.7 | | 35, 2 | 35.3 | 34.0 | 36.8 | | 35.7 | 36.5 | 36. 7 | 37.4 | 37.0 | 10 | 4 | • | 37.1 | 36.3 |
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| 20.9 22.1 21.6 22.5 22.3 21.9 21.6 25.2 25.1 25.2 26.4 25.8 26.2 26.0 | 20.9 22.1 21.6 22.5 22.3 21.9 21.6 25.2 25.1 25.2 26.4 25.8 26.2 26.0 26.1 16.9 18.0 18.0 18.6 18.3 17.8 18.1 21.8 21.5 21.7 22.7 22.4 22.6 22.6 22.9 | 16000 | 25.0 | | 25.5 | | 26.6 | 26.3 | 25.7 | 28.9 | 29.0 | 28.9 | 30.4 | 29.3 | 29.8 | 29.5 | | 29.3 | | 29.7 | 29.4 |
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| 16.9 16.0 16.0 16.6 18.3 17.8 18.1 21.8 21.5 21.7 22.7 22.4 22.8 22.5 | | 25000 | 16.9 | | 18.0 | | | 17.8 | 19.1 | 21.8 | 21,5 | 21.7 | | 22.4 | 22.8 | 22.6 | . | ~ | ľ | 23.0 | 23.0 |

| | 46 8183 A | 100 | 8.06 | 96.3 | 84.1 | 81.9 | 77.1 | 76.5 | 71.7 | 58.6 | 65.2 | 61.5 | 53.0 | 16.5 | 13.6 | (1.6) | 36.3 | 32.8 | 29.4 | 26.2 | 23.6 |
|---|--|-------------------|--------------|--------------|------|----------------------|------------|--------|--------|-------|----------|----------|----------------|--------------|------|--------------|-------|-------|--------|----------|----------|
| 100 I | CODE 7. | 170 | | م ه | _ | 25.57 | | 8-92 | _ | _ | | | | | _ | _ | | | 29.7 | | |
| IDENTIFICATION: OMEGA 8.2 TEST 77-746-881 | 15 C TION C TION C T T 9 C T T 9 C T T 9 C T T 9 C T T 9 C T T T T | 160 1 | _ | | | 81.2 8 78.9 7 | | • | | | | 61.5 | | | | | • | • | m | • | . |
| DENTIFOUND ONEGA | AIRCRAFT OPERATION PROFILE V 28 NOV 79 | | | ۰. | ۰ | . | <u>م</u> ا | • | , M | m | | . | . | . • | ~ | | • | • | 3 29. | • | ~ |
| | | 150 | | | | 4 61. | _ | 74. | | | | ;; | | | | | 5 36. | | 4 29. | 1 26. | |
| | 9 | 3 | 69 | 85.7 | 63. | 7 6 | 76. | 74. | 71. | 68. | 65. | 61.4 | C M | • | * | • | | | 29.4 | | |
| | L H X | 130 | 89.7 | 85.6 | 83.5 | 24.2 | 76.5 | 76.8 | 71.3 | 68.3 | 65.1 | 61.6 | 7 C | 49.3 | 44.7 | 6.1 | 37.1 | 33.2 | 29.5 | 26.9 | 22.6 |
| | = 59 =29,92 = 70 | 120 | 90.0 | 85.9 | 63.8 | 81.7 79.4 | 77.0 | 76.5 | 71.0 | 6.8.8 | 65.7 | 62.2 | 7 0.4 7 0.4 | 49.8 | 45.2 | 41.4 | 37.4 | 33.6 | 29.0 | 26.2 | 22.8 |
| | OGY 1 PRESS HUMID | 110 | 89.5 | 65.4 85.4 | 83.3 | 81.2 78.9 | 76.5 | 76.0 | 71.2 | 68.3 | 65.2 | 61.6 | 57.50 53.5 | , 6. 1.6. | 44.3 | 40. 6 | 36.7 | 33.0 | 29,3 | 25.8 | |
| | TEOROL TENP BAR REL LTA N | EES) 100 | 90.1 | 90° | 83.9 | 81.7 79.5 | 77.2 | 74.8 | | 4.69 | 66.5 | 63.1 | 7.7.0 | 51.0 | 40.4 | 42.5 | 38.5 | 34.4 | 30.4 | 26.4 | 22.7 |
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| SOUND LE | a m | 9 | 86.8 | 82.6 | 80.5 | 76.3 | | 71.2 | | 9 | ۰ | | 0 K | ٠ 🕶 | r. | M | | | | • | ₩. |
| ILL SO | | 50 | | 82.7 | | | | | | | | | 50° C | | | | | | 26.3 | | |
| 0 0 | OPERATIONS AFTERB SINGLE GROUND | 3 | | . 0 | • | 77.6 7 | | ٠ | • | N | m | | ٥ « | و . | m | | 5.2 | 6.0 | 9 | | ۳ • |
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| ⋖ . | œ | 10 21 34 | | | | 78.0 7 75.7 7 | | 70.8 7 | | | | 56.9 | | | | | | | 25.5 2 | | |
| _ | WBJECT 1 SUPPRESSOR | 2 | | | | 79.0 7 | | | 69.1 6 | | 63.4 6 | | | | N | 39.2 3 | | | 26.4 2 | | |
| -COR | | | ~ . | | | | | | | | | | | و ، | | Φ. | | | | | |
| AS A | SE SOURCE/SUBJECT! F-5 NOISE SUPPRESS AF3ZA-18 | | 96 | 20 | 4 | 77.7 | 73 | 7 0. | 67. | 65.0 | 62 | e E | | • | 42 | 37, | S. S. | 29. | 25.0 | 20. | 9 |
| 19L E 1 | NOISE SC F-5 AF33 | (DISTANCE | 208 | 315 | 004 | 9 69 9 69 9 69 | 9 8 9 | 1000 | 1250 | 1600 | 2000 | 2511 | 4.0 BB | 200 | 6300 | 99 90 | 1000 | 12500 | 16001 | 20001 | 25000 |

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|-------------------------|--------------------------|----------|--------|-------|------|-----|--|-------|------|---|----------------------|------|-----|--|--------------|---------------------|-----------------------|--|---|---------------------------------|----------|---|---|--------------|
| NOISE SC F-5 AF33 | OURCE/ NOISE 2A-18 | SUBJ | PRES | | | | OPERATIONS AFTERB SINGLE GROUND | TERBI | RNER | ATION: AFTERBURNER PONER SINGLE ENGINE GROUND RUNUP (SUP | ONER (SUPPRESSED) | 8 | HET | METEOROLOGY S TEMP BAR PRES REL HUMI DELTA N = | PRES HUMI | S = 29.92 0 = 70 | 59 F 92 IN 70 X | 9 X | İ | AIRCE DPERI PROFI PAGE | | 110k C 12 12 12 12 12 12 12 12 12 12 12 12 12 | SION | 746 00103 |
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| F-15 IN THE | | 37 27 37 L | F-15 IN THE |
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| | 2 H IS V I I I | T | |
| | MOISE PRODUC | PRODUCED ON THE GROUND BY | |
| | F-15 IN THE | N THE | |
| | DURING GROUND RUN-UP | D RUN-UP OPERATIONS | |
| | TEST 79-7 AIRGRAFT CODE: PROFILE VERSION COMPUTER PROGRAM | 79-761-801 T CODE: 761 VERSION: A PROGRAM OMEGA 8,2 | |
| | Power Setting | a bed | |
| | Idle Power, 65% RPM Engine Runup, 80% RPM Military Power, 91% RPM . Afterburner Power | | |
| | FOR EACH POWER SETTING, THI | THE FOLLOWING DATA ARE PROVIDED: | |
| | NORMALIZED DATA AS A FUNCTION OF ANGLE NOISE LEVELS AS A FUNCTION OF ANGLE AND PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL NOISE LEVELS AS A FUNCTION OF ANGLE | AND D DIS 7EL SOUN | |
| | AEROSPACE IEDICAL ERIGIALPATIERSOZ A | CH LABORATOCE CE BASE, OH | > 0 ₩ H |
| F-45 IN THE F-45 IN THE F-45 IN THE F-45 IN THE | 18 TME F-45 IN TAN 18 TME F-45 IN TAN 18 TME F-45 IN TAN | USAF | F=15 IN THE F=15 IN THE |

| | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUN BAND 250 | PR | ES SUR E | LEVEL | (08) | | | | | | | | | | DENTIF OMEGA TEST 7 | 17. 2. 761 | ON: | |
|---|--|---------------------|------------|------------|--|--|------------|----------------------|------------|-------------------------------------|----------|-------------------------|------------------|------------|------------------|--|------------------|---------------------------|-------------------|
| 12E SOURC F-15 IN T AF32A-23 FAR-FIELD | SUBJEC SPRESS JPPRESS | 7 t | | OPER | FRATIONS IDLE PON SINGLE E GROUND R | E SE SE SE SE SE SE SE SE SE SE SE SE SE | , Kg - | % RPM) Suppressed | E0) | METEO TEM BAR REL DELTA | APRE HUM | 67 t = SS = 29 ID = 3.0 | . 59 78 08 | N N HG | | AIRCRAFT OPERATION PROFILE V 28 NOV 79 PAGE C1 | | CODE 7 CODE 0 RSION | 761 00213 A |
| (BAND CENTER (FREQ (HZ) | | 9 | 92 | 30 | 9 | | 5 | Z AN | NGLE (| DEGREE 90 1 | ŝ | 110 1 | 20 | 130 1 | 140 | 156 | 160 | 170 | 180 |
| 20 | 49 | 62 | 62 | 62 | 63 | 9 | 53 | 29 | 28 | 24 | | | 58 | 63 | | 29 | 25 | 25 | 26 |
| 63 | | 63 | 62 | 9 | 61 | 61 | 61 | 61 | 61 | 61 | | | 58 | 65 | | 9 | 60 | 28 | 21 |
| 90 | | 63 | 63 | 5 | 29 | 19 | 9 | 2 0 | 53 | 28 | | | 26 | 62 | | 20 | 29 | 27 | S |
| | 29 | 40 | 9 4 | 29 | 5 4 | 63 | 29 | 25 | 1 9 | 10 | | | 50 U | 9 1 | | 40 | 19 | 0 V | 24 |
| 160 | 9 9 | 2 9 | 9 | 99 | 6 6 | 6 2 | 5 | 9 | , G | 0 €0 0 €0 | | | - 25 | - 55 | | 9 | 29 | 5 5 5 | , re |
| 200 | 29 | 79 | 63 | 69 | 23 | 58 | 25 | 57 | 25 | 26 | | | 22 | 52 | | 9 | 61 | 55 | 25 |
| 052) | 29 | \$ | 63 | 63 | 61 | 61 | 60 | 23 | 58 | 26 | | | 52 | 26 | | 52 | 62 | 96 | 54 |
| 312 | 99 | 62 | 6 2 | 9 | 23 | 60 | 53 | 28 | 25 | 2 6 | | | 53 | 25 | | 53 | 9 | 21 | Ç |
| 004 | 69 | 67 | 99 | 29 | Z | 69 | 29 | 65 | 29 | 9 | | | 52 | 52 | | 52 | 61 | 25 | 8 |
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| 2000 | 26 | 25 | 9 | 21 | 25 | 26 | 22 | 24 | 53 | 25 | | | 25 | 3 0 | | 47 | 74 | 39 | 39 |
| 5500 | 7.1 | 72 | 73 | 7 | 25 | 72 | 11 | 20 | 69 | 99 | | | 69 | 99 | | 63 | 25 | | 25 |
| 3150 | | 9 | 99 | 99 | 99 | 99 | 62 | 65 | † | 63 | | | 49 | 63 | | 2 | 25 | | 4 |
| 0007 | 67 | 99 | 68 | 99 | 99 | 62 | † 9 | † 9 | 63 | 63 | | | 9 | 79 | | 20 | 25 | | 6 |
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| 6306 | 28 | 9 | 93 | 26 | 26 | 52 | 54 | ů Ž | 53 | 53 | | | 24 | 30 30 | | 4 | 4 | | |
| 8000 | 52 | 21 | 26 | 3 | ų. | 25 | 21 | 21 | 21 | 2 | | | 51 | 4 | | 3 | 39 | | J M |
| 10000 | 64 | 23 | 21 | 6 | 84 | 41 | 46 | Ž. | † | £3 | 45 | | 43 | 9 | 7 | 37 | # | | |
| (OVERALL | 79 | 78 | 79 | 7.8 | 7.8 | 11 | 92 | 75 | 74 | 73 | 73 | 72 | 73 | 73 | 73 | 73 | 72 | 29 | 99 |
| , | 4000000 | | | | 1 | | | | | | | | | | | | 1000 | - | |

| TABLES | PERCEI | PERCEIVED NOISE LEVEL | ISE LE | ~ · | (PN08) | | | | | | | | | | | DENTI | IDENTIFICATIONS OMEGA 8.2 | HONS | |
|-----------|--|-----------------------|-------------|------|----------------------|------------|-----------------------------------|----------|-------------|-----------|-----------------|------------|------|-------|------|--------|------------------------------|-------|----------|
| | AS A FUNCTIO | AS A FUNCTION OF ANGL | | ; | AND DISTANCE | | FROM SOURCE | JORGE | | | | | | | | JEST C | 79-761-001 | 1-001 | |
| NOISE SOL | E SOURCE/SUBJECT | BJECT 8 | | - | OPERATIONS TOLE P | IONS | 150 (A | (MGG 25 | | 3 | MET EOROL OGY 1 | ,06Y t | , K | L | | AIRC | AIRCRAFT | C0 DE | 761 |
| AF321 | AF32A-23 SUPPRESSOR FAR-FIELD NOISE | PPRESS | 8 | | ខេត្ត | INGLE I | SINGLE ENGINE GROUND RUNUP (SI | | SSED | | E & | PRESSHUMID | =29. | IN HG | | 28 GF | ILE V | SSION | A |
| (| | | | - [| | | | i | ANGLE | | CREES) | B 00 1 | | | | 4 | 5 | | |
| (FEET) | • | 9 | 20 | 8 | 3 | 20 | 9 | 0,2 | 3 | 90 790 | 100 | 110 | 120 | 130 | 140 | 150 | 168 | 170 | 100 |
| 802 | 94.0 | 94.8 | 94.6 | 93.2 | 93.4 | 95.9 | 92.0 | 91.1 | 90.2 | 4.69 | 86.5 | 87.7 | | 88.5 | | | | 77.1 | 75.9 |
| 250 | 91.7 | 91.7 | 92.5 | 91.0 | 91.2 | 9006 | 89.7 | 88.9 | 86.0 | 87.1 | 86.2 | 85.4 | | 86.2 | | | | 74.8 | 73.6 |
| 318 | 4 6 6 | 4.69 | 90.2 | 9.0 | ණ . ණ ද | 86.3 | 97.6 | 86.5 | 85.6 | eo . | 6 % | 83.4 | | 63.0 | | | | 72.4 | 71.3 |
| | 9 / 0 | 9 4 8 | 0 | 9 e | \$ 4 6 4 | 87°4 | 0 K | A 4 5 1 | 80.7 | 10.0 | 70.0 | 78.0 | 70.0 | 70.0 | **** | | 72.5 | 7.75 | 0000 |
| 630 | 81.9 | 61.6 | 82.7 | 61. | 81.3 | 90.9 | 79.9 | 79.0 | 78.1 | 77.2 | 76.3 | 75.4 | | 76.3 | | | | 64.7 | 63.4 |
| 909 | 79.1 | 79.0 | 79.9 | 78.4 | 78.6 | 78.1 | 77.1 | 76.2 | 75.3 | 74.4 | 73.5 | 72.6 | | 73.5 | | | | 61.7 | 60.5 |
| | 76.1 | 76. | 76.9 | | 78.7 | 75.1 | 74.2 | 73.3 | | 71.4 | 70.5 | 60, 6 | | 7.6.5 | | | | 7.6 | A. 7. |
| 1258 | 7 3.0 | 72.8 | 73.8 | 72.2 | 72.5 | 72.8 | 71.0 | 70.1 | | 68.2 | 67.3 | 66.3 | 68.1 | 67.3 | 68.0 | 63.8 | | 55.1 | 53.8 |
| 1600 | 69.5 | 69.3 | 70.3 | 3 | 69.0 | 69.5 | 9.29 | 9.99 | | 64.7 | 63.7 | 62.7 | | | | | | | 50.1 |
| (2888 | 65.7 | 65.5 | 66.5 | × | 65.3 | 64.8 | 63.8 | 62.8 | | 60.7 | 59.8 | 56.7 | 9.09 | | | | | | 45.5 |
| 2500 | 61.3 | 61.2 | 62.2 | å | 61.1 | 66.5 | 59.5 | 58.4 | | 56.3 | 55.5 | 54.1 | | | | | | | 39.7 |
| 3128 | 200 | 56.2 | 57.4 | 2 | 20.5 | 55.6 | 54.5 | 53.4 | | 51.2 | 50.1 | 0.6 | | | | _ | | | 32.5 |
| | | | 51.0 | ٠. | *** | 9.00 | | 10.7 | | \$ 20° | | 42.7 | | | | | | | 24.3 |
| | 4 5 E | 7 2 2 | 10.0 | 2 | 4 9 | 35.1 | 7 7 | 34.0 | | 27.5 | 20°0 | 24.2 | | | | | | | 1001 |
| 9000 | 26.3 | 20.5 | 27.3 | | 2 % 2 | 26.6 | 24.1 | 21.6 | 19.2 | 15.0 | 12.7 | 4.6 | 12.6 | 12.0 | 11.8 | | 13.9 | | |
| | • | 1 | • | | ; | | (| • | | | | | | | | | | | |
| 12500 | 17.6 8.4 | 110.7 | 17.8 8.2 | 16.5 | 21.5 | 8.6 | 15.5 | . | 7. 6 | 5. | | | | | | | ٠ • | | |
| 16000 | } | 2.7 | ; | | 1.5 | | ; | | | | | | | | | | | | |
| 20000 | | | | | | | | | | | | | | | | | | | |
| 10067 | | | | | | | | | | | | | | | | | | | |
| | | | | , | | | | | | | | | | | | | | | |

| | AS A FUNCTIO | FUNCTION OF | | | | | | | | | | | | | | OMEGA | 7 9 Y | | |
|-------------------------------------|--|-------------|------------------------|-------------------|--|---|--|-------------------------|--------------|--------------|---------------------------------------|---------------------------|------------------------|--------------|--------------|------------------------------------|--|------------------------------------|---------------------|
| 1 | | | | ANGLE A | AND DISTANCE | | FROM SOURCE | OURCE | | | | | | | |) TEST | ₽. € | 1-001 | |
| NOISE SOU F-15 AF32/ FAR-1 | E SOURCE/SUBJECT: F-15 IN THE AF32A-23 SUPPRESSOR FAR-FIELD NOISE | BJECT: | | | OPERATIONS IOLE P SINGLE GROUND | RATION: IDLE POI SINGLE I GROUND I | ATION: IDLE POWER (65% SINGLE ENGINE GROUND RUNUP (SI | SX RPH) (SUPPRESSED) | SSED) | ¥ 8 | METEOROLOGY STEPPES BAR PRES REL HUHI | PRESS = 2 HUMID = -3.0 | = 59 =29.92 = 78 | F H HG | | AIRCRAFT OPERATIO PROFILE 28 NOV 7 | 15 0 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | CODE 7 N CODE 8 VERSION 9 | 761 00213 A |
| (OISTANGE ((FEET) | b 10 20 | = | 92 | 8 | 3 | 20 | 9 | | ANGLE 80 | 28 | EGREES) 188 | 110 | 128 | 130 | 140 | 150 | 160 | 170 | 166 |
| | 97.2 | 97.1 | 98.6 | 96.5 | 96.8 | 7.96 | 1.56 | 94.6 | 93. 6 | 6.26 | 95.0 | 91.1 | | 95.4 | 93.2 | ~ | | | 78.8 |
| 256 315 | 94.9 92.6 | 94.9 | 95°8 93°8 | 94.3 91.9 | 94.5 | 94.4 | 93.4 | 92.5 98.2 | 91.6 | 90.6 | 89.7 | 86. 8 86. 5 | 98.7 | 90.1 | 98.6 86.6 | 4.96 | | 77.9 | 76.5 |
| 3 | 90.2 | 98.1 | 91.0 | 89.5 | 8.0 | 19.7 | 89.7 | 87.8 | 96.8 | 85.9 | 85.0 | 84.4 | | 65.4 | | | 100 | | 71.7 |
| 50 0 | 87.7 | 87.6 | 8 8. 5. 9. 9. | 87.8 84.4 | 67°3 | 84.6 | 86.2 83.6 | 85.3 82.7 | 64.3 81.7 | 83.4 | 82°4 79°8 | 81.5 78.9 | | 82.9 80.2 | | 79.1 | | | 69.1 66.3 |
| 9 8 8 | 92.2 | 82.2 | 83.1 | 91.6 | 61.9 | 81.8 | 60.0 | 79.9 | 78.9 | 77.9 | 77.0 | 76.8 | | 77.4 | | | ص | | 63.4 |
| 100 | 79.3 | 79.2 | 80.2 | 78.7 | 79.0 | 78.9 | 77.9 | 76.9 | 75.9 | 15.0 | 74.6 | 73.0 | • | 74.4 | | | ۰ و | | 60.2 |
| 1258 1608 | 76.1 72.6 | 72.5 | 73.5 | 75.5 | 75.6 | 75.7 | 74.7 | 73.7 | 72.7 69.2 | 71.7 68.2 | 70.7 67.2 | 69. 7 66. 2 | 71.6 68.8 | 71.1 67.5 | | 67.3 63.6 | 60.4 | 76.4 74.4 | 56.7 |
| | 68.8 | 68.7 | 69.8 | 68.3 | 68.7 | 68.5 | 67.5 | 66.4 | 65.3 | 64.3 | 63.2 | 62.2 | | 63.6 | 64.2 | 10 | • | | 40.4 |
| 2588 | 5 5 6 5 7 | 59.4 | 65.5 | 5.5 9.5 1.5 | 5. 5. 5. | 59.4 | 63. 2 58. 2 | 62.1 57.8 | 66. 55.0 | 59° 6 | 56.7 | 57.6 | | 58.9 | | | N = | | 35.3 |
| ; | 53.2 | 53.8 | 54.2 | 52.7 | 53.1 | 53.0 | 51.8 | 20.6 | 49.5 | 48.2 | 6 9 | 45.5 | ی . | 47.1 | | | • | | 26.6 |
| 2 | 45.5 | 45.6 | 47.1 | 45.3 | 45.7 | 42.4 | 44. | 12.7 | 41.4 | 0.04 | 38.6 | 36.9 | m i | 38.5 | | 31.5 | _ | | 9:51 |
| | 26.9 | 29.2 | 27.9 | 26.4 | 29.6 | 27.3 | 24.9 | 22.4 | 20.0 | 15.7 | 13.4 | 19:1 | n 19 | 12.8 | 12.6 | | 14.6 | • | |
| 10000 | 17.6 | 28.7 | 17.8 | 16.5 | 21.3 | 19.8 9.9 | 15.5 | 6.6 | 7.6 | 2.4 | | | ~ | | | | 5.6 | | |
| 16000 20110 25000 | | 2.7 | | | 4 R | • | | | | | | | | | | | | | |

| FEET COUNCE/SUBJECT: COPERATION: COPER | | AS | A FUNCTION | ₽ | M | AND DIST | | FROM S | SOURCE | | | | | | | | TEST | | 1-001 | |
|--|---------------------|------------------------------|------------|----------|-----------|-------------|-----------------------------|---------------------------|------------|----------|---------|-----------------------------------|-------|----------|------|-------------|----------------------|--|---------------------------|-----------------|
| 79.0 79.2 80.0 76.4 79.0 70.4 70.5 75.6 72.8 74.0 72.5 74.7 78.9 74.0 72.7 76.9 74.0 72.7 76.9 72.7 76.9 72.7 76.9 72.7 76.9 72.7 76.9 72.7 76.9 72.7 76.9 72.7 76.9 72.7 76.9 72.7 76.9 72.7 72.7 76.9 72.7 72.7 72.7 72.9 72.7 72.7 72.9 72.7 72.7 | NOISE SOU | JRCE/SU IN THE 1-23 SU | BJECT 1 | • | | 1 02 | TION: DLE POI TNGLE (| MER (6 ENGINE RUNUP | 5x RPM) | SSED | # ö | OROL OROL BAR BAR AEL | S S S | | E HX | | AIRC OPER PROF | RAFT ATION ILE VE 0V 79 F1 | CODE 7 CODE 6 RSION | 61 0213 A |
| 79.0 79.2 80.0 70.4 70.3 77.4 70.5 77.4 70.0 77.5 77.0 77.0 77.0 77.0 77.0 69.0 <th< th=""><th>(DISTANCE ((FEET)</th><th>•</th><th>10</th><th>İ</th><th>98</th><th>3</th><th>50</th><th>99</th><th>92</th><th>ANGLE</th><th> es</th><th>100</th><th>110</th><th>120</th><th></th><th>į</th><th>150</th><th>i</th><th>170</th><th>186</th></th<> | (DISTANCE ((FEET) | • | 10 | İ | 98 | 3 | 50 | 99 | 92 | ANGLE | es | 100 | 110 | 120 | | į | 150 | i | 170 | 186 |
| 76, 7 76, 9 77, 7 76, 1 76, 8 76, 1 75, 2 72, 0 73, 4 72, 5 71, 7 78, 9 73, 7 73, 1 66, 7 65, 6 59, 6 59, 6 70, 7 71, 7 71, 7 71, 7 71, 7 72, 7 | 500 | 79.0 | 79.2 | 80.0 | • | 79.0 | 78.3 | 77.4 | 76.5 | 75.6 | ~ | 74.0 | | | | ٠ | | | 61.8 | 60.7 |
| 7.6.4 7.6.5 7.6.4 7.5.9 7.5.6 7.5.6 6.7.5 66.7 67.9 68.3 7.6.5 7.5.6 7.8.5 7.5.5 7.5.5 7.5.5 7.5.5 7.5.5 7.5.5 7.5.5 7.5.5 7.5.5 6.7 | 250 | 76.7 | 76.9 | 77.7 | å, | 76.8 | 76.1 | 75.2 | 74.3 | 73.4 | 10 | 71.7 | | | | ٠, | | | 9.69 | 58.6 |
| 69.6 69.8 70.6 69.1 69.1 69.1 69.1 69.1 69.2 69.2 69.2 69.2 69.2 69.3 69.2 69.3 69.6 65.9 69.6 65.9 69.6 69.8 69.8 69.8 69.8 69.8 69.8 69 | 315 | *** | 70.0 | 7.2.4 | , , | | 73.0 | 6.27 | 9.57 | 71.1 | | 4.64 | | | | . | | | 57.3 | 56.3 |
| 67.1 67.2 68.0 66.6 67.3 66.6 65.0 64.0 63.7 62.0 62.0 61.1 63.1 63.1 63.1 63.2 58.0 56.7 58.2 64.4 64.5 65.0 65.0 65.0 62.0 61.0 61.0 61.0 61.1 59.2 58.4 61.3 59.3 54.3 56.3 56.3 56.3 56.3 56.3 56.3 56.3 56 | 000 | 69.6 | 69.8 | 70.6 | • | 9 69 | 69.1 | 68.1 | 67.2 | 66.3 | h .+ | 64.5 | | | | e on | | | 52.7 | 51.7 |
| 64.4 64.5 65.4 63.9 64.8 64.0 63.0 62.0 61.0 60.1 59.2 58.4 68.3 59.3 60.5 55.3 54.3 47.6 61.7 62.6 61.2 62.1 61.3 60.2 59.2 58.2 57.3 56.4 55.5 57.4 56.7 57.5 52.4 54.4 49.3 42.0 58.7 59.5 58.3 59.8 58.5 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 57.5 47.3 46.6 47.3 46.6 47.3 46.6 47.5 46.3 47.5 46.3 47.5 46.3 47.5 47.5 47.3 46.6 47.3 42.8 43.9 44.9 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 46.8 47.5 47.5 46.8 47.5 47.8 39.8 34.8 34.9 37.3 22.8 48.8 47.5 46.8 47.5 47.5 48.8 38.8 38.9 34.0 38.9 34.9 37.3 28.3 48.8 48.8 47.5 48.8 23.6 28.8 28.7 28.9 34.0 38.4 37.8 28.3 38.7 35.8 38.9 34.0 38.9 37.8 28.8 28.7 28.9 34.0 38.4 37.8 28.8 28.7 28.8 28.8 | 630 | 67.1 | 67.2 | 69.0 | • | 67.3 | 9.99 | 65.6 | 9.49 | 63.7 | - | 62.0 | | | | . A. | | | 50.5 | 49.2 |
| 61.7 61.7 62.6 61.2 62.1 61.3 60.2 59.2 57.3 56.4 55.5 57.4 56.7 57.5 57.8 57.4 56.4 57.5 57.5 57.9 44.9 55.7 59.6 58.3 57.4 56.4 57.3 57.4 56.4 57.3 57.4 56.4 57.3 57.4 56.4 57.3 57.4 56.4 57.3 57.4 56.4 57.3 57.4 56.4 57.3 57.4 57.3 40.8 49.3 42.0 55.6 56.4 57.2 56.4 57.2 57.4 57.3 40.8 47.7 46.7 46.7 49.5 47.3 40.6 47.2 46.8 47.7 46.7 46.7 49.5 47.3 34.0 46.8 47.7 46.7 46.7 49.5 46.8 47.5 46.8 47.7 46.7 46.7 47.3 46.8 47.8 47.3 34.8 47.3 34.8 47.3 34.8 47.3 34.8 47.3 34.8 47.3 34.8 47.3 34.8 47.3 34.8 37.3 37.8 37.2 37.2 47.3 34.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 4 | 000 | 64.4 | 64.5 | | ñ | | 64.0 | 63.0 | 62.0 | 61. u | _ | 59.5 | | | | 10 | | | 47.6 | 46.7 |
| 58.7 58.6 58.8 59.3 59.4 59.6 58.4 59.6 58.7 59.6 59.3 59.4 59.5 59.4 59.3 59.4 59.4 59.4 59.4 59.6 <th< td=""><td>1880</td><td>61.7</td><td>61.7</td><td>62.6</td><td>4</td><td>62.1</td><td>61.3</td><td>60.2</td><td>۸.</td><td>58.5</td><td></td><td>56.4</td><td>55.5</td><td>57.4</td><td>4</td><td>5</td><td></td><td>51.9</td><td>•</td><td>4</td></th<> | 1880 | 61.7 | 61.7 | 62.6 | 4 | 62.1 | 61.3 | 60.2 | ۸. | 58.5 | | 56.4 | 55.5 | 57.4 | 4 | 5 | | 51.9 | • | 4 |
| 55.6 56.4 55.2 56.4 55.2 52.1 51.1 50.1 49.2 50.9 50.1 51.0 46.6 57.0 46.6 57.0 46.6 57.0 46.6 57.0 46.6 57.0 46.7 46.7 46.7 47.3 46.8 47.3 46.8 47.3 46.8 47.3 46.8 47.3 46.8 47.3 46.8 47.7 46.7 46.7 46.7 46.7 46.7 46.7 46.7 46.7 46.7 46.8 47.3 46.8 47.3 46.8 47.3 46.8 47.3 46.8 47.3 46.8 46.9 46.9 46.6 46.9 46.6 46.7 46.9 46.9 36.9 <th< td=""><td>(1250</td><td>58.7</td><td>59.7</td><td>59.6</td><td>4</td><td>59,3</td><td>58.5</td><td>57.4</td><td></td><td>55.3</td><td>54.3</td><td>53,3</td><td></td><td>m</td><td></td><td>4</td><td>49.4</td><td>m</td><td></td><td>41.2</td></th<> | (1250 | 58.7 | 59.7 | 59.6 | 4 | 59,3 | 58.5 | 57.4 | | 55.3 | 54.3 | 53,3 | | m | | 4 | 49.4 | m | | 41.2 |
| 52.4 52.3 53.1 55.0 53.4 52.4 51.1 49.9 48.8 47.7 46.7 45.7 46.6 47.3 42.8 43.9 35.8 43.9 35.8 46.6 47.3 42.8 43.9 35.8 46.7 45.3 53.0 10.8 35.9 35.8 46.7 46.7 46.7 46.7 46.7 46.7 46.7 46.7 | 1600 | 52.6 | 55.6 | 56.4 | ŝ | 56. | 55.5 | 54.3 | ٠. | 52.1 | 51.1 | 50.1 | | 6 | | | 16.2 | | | 38.3 |
| 40.4 40.6 45.5 40.6 42.1 45.0 40.8 47.2 40.1 42.9 42.9 42.3 42.3 42.4 43.4 53.8 59.8 40.6 5 50.8 40.6 40.8 41.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50 | 2002 | 52.4 | 52.3 | 53.1 | 'n. | 230 | 52.4 | 51.1 | ~ 1 | 6 | 47.7 | 46.7 | | m | | m 1 | 15.8 10.8 | . | | 35.2 |
| 44.7 40.5 47.5 47.5 47.5 47.5 47.5 47.5 47.5 47 | 2007 | • 0 | • • • | , i | . | , , , | 9 4 | | . | 45.4 | 9 | 62.0 | | m (| | , | 9.65 | | | 31.9 |
| 35.7 35.6 36.5 36.1 37.6 36.3 34.9 33.6 32.2 31.0 29.6 20.6 29.2 20.9 20.7 25.5 29.2 19.3 30.9 31.0 27.4 25.6 20.6 29.2 20.9 20.7 25.1 20.5 29.7 19.3 30.9 31.0 27.4 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.4 27.5 20.0 27.7 20.2 21.7 20.2 10.7 17.3 10.0 10.7 14.2 14.4 12.9 12.6 17.3 10.0 10.5 9.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 | | • | | 42.0 | i | 1001 | 40.4 40.4 | 9 0 | ٠. | 41.1 | 4 C • C | 200 | | . | | . | 7 · | o 14 | | 2002 |
| 38.9 31.8 31.7 31.4 33.3 31.7 31.2 28.8 27.4 26.1 24.8 23.6 23.8 23.7 23.1 28.5 24.7 14.5 26.8 27.4 27.5 26.0 27.4 26.1 21.8 20.5 19.2 19.0 19.8 17.8 16.3 21.2 18.7 25.8 27.4 27.4 27.4 27.5 26.0 24.6 23.1 21.8 21.2 18.7 18.7 18.8 16.3 21.2 18.7 18.7 18.2 18.7 18.8 18.8 17.8 16.3 21.2 18.7 18.7 18.2 18.4 12.9 12.2 17.3 6.7 18.7 18.7 18.2 18.4 12.9 12.2 17.3 6.7 18.3 18.0 18.5 17.3 18.0 18.5 18.7 18.3 13.6 12.8 18.9 18.5 6.5 6.2 6.9 6.9 6.5 6.8 8.1 7.2 8.7 8.2 6.5 5.1 3.6 2.2 6.8 8.1 7.2 8.7 8.7 8.8 8.8 8.1 7.2 8.7 8.7 8.8 8.8 8.1 7.2 8.7 8.7 8.8 8.8 8.1 7.2 8.7 8.7 8.8 8.8 8.1 7.2 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 | 2000 | 35.7 | 35.6 | 36.5 | 6 | 37.8 | 36.3 | 34.9 | | 32,2 | 31.0 | | | , a | | > | 20.0 | | | 19.8 |
| 26.8 27.8 27.4 27.4 27.4 28.7 26.0 24.6 23.1 21.8 20.5 19.2 19.0 19.0 17.8 16.3 21.2 10.7 22.6 22.9 23.0 22.6 24.5 23.2 21.7 20.2 18.7 17.3 16.0 14.7 14.2 14.4 12.9 12.2 17.3 6.7 18.2 14.0 13.5 14.0 13.5 14.0 13.5 14.0 13.5 14.0 13.5 14.0 13.5 14.0 13.5 14.0 13.5 14.0 13.5 14.0 13.5 14.0 13.5 14.0 13.5 12.7 14.3 13.6 12.0 10.5 9.0 7.6 6.2 4.9 4.5 4.0 2.0 3.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 | 6300 | 30.9 | 31.0 | 31.7 | - | 33.3 | 31.7 | 30.2 | - | 27.4 | 26.1 | 24.8 | | . 40 | | . + | 21.5 | | | 15.2 |
| 22.6 22.9 23.8 22.6 24.5 23.2 21.7 20.2 18.7 17.3 16.0 14.7 14.2 14.4 12.9 12.2 17.3 6.7 7.1 18.2 16.6 16.4 17.9 19.6 18.6 17.0 17.0 17.9 19.5 17.1 2.6 3.0 13.5 14.0 13.5 12.7 14.3 13.6 12.0 16.5 14.1 12.7 14.3 13.6 12.0 16.5 9.0 7.6 6.2 4.9 4.5 4.8 2.8 3.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 | 0000 | 26.8 | 27.0 | 27.4 | | | 27.5 | 26.0 | | 23.1 | 21.8 | 50.5 | | | | - | 16.3 | ~ | | 11.4 |
| 18.2 16.6 18.4 17.9 19.6 18.6 17.0 15.5 14.1 12.7 11.3 18.0 9.5 9.0 7.9 7.9 13.1 2.6 3.1 13.5 14.0 13.5 12.7 14.3 13.6 12.0 10.5 9.0 7.6 6.2 4.9 4.5 4.0 2.6 3.5 8.4 8.5 8.5 8.1 7.2 8.7 8.2 6.6 5.1 3.6 2.2 .8 4.9 4.5 4.0 2.8 3.5 3.3 3.1 3.2 2.2 1.4 2.8 2.4 .8 | 1888 | 22.6 | 22.9 | 23.0 | 4 | 4 | 23.2 | 21.7 | 20.0 | 4 A. 7 | 17.3 | 6,0 | 16.7 | 4 1 2 | 4.4 | σ | 6 | | | |
| 13.5 14.0 13.5 12.7 14.3 13.6 12.0 10.5 9.0 7.6 6.2 4.9 4.5 4.8 2.6 3.5 8.4 8.5 8.8 8.1 7.2 8.7 8.2 6.6 5.1 3.6 2.2 .8 4.9 4.5 4.8 3.5 3.3 3.1 3.2 2.2 1.4 2.8 2.4 .8 | 12500 | 18.2 | 16.6 | 16.4 | ; ,: | 6 | 18.6 | 17.0 | 15.5 | 14.1 | 12.7 | 11.3 | 10.0 | | | . 0 | 7.0 | | 2 | M |
| 3.5 8.8 8.1 7.2 8.7 8.2 6.6 5.1 3.6 2.2 .8 3.1 3.2 2.2 1.4 2.8 2.4 .8 | 16000 | 13.5 | 14.0 | 13.5 | ้ง่ | | 13.6 | 12.0 | 10.5 | 6 | 7.6 | 6.2 | 5 | | | | 3 | 4.6 |) } | ; |
| 3.1 3.2 2.2 1.4 2.8 2.4 . | 20000 | 8.5 | 8.8 | 8.1 | 7.2 | • | 8.2 | 9.9 | 5. | 3.6 | 2.2 | | | • | : | | | 30.00 | | |
| | (25000 | 3.1 | 3.2 | 2.2 | 1. | | 2.4 | • | | | | | | | | | | | | |

| AS A FUNCTION OF MAGLE AND DASFANCE FROM SOURCE NOTES COUNCEGABLECTT OFFICIAL OFFICE AND DASFANCE FROM SOURCE AFRACTELD HOISE AFRACTER HOME AFRACT | (TABLES | TONE | TONE-CORRECTED, A-WE | TEO, A | IGH | | OVERALL S | | | | | | | | | | OMEGA | SA B.2 | DENTIFICATIONS OMEGA 8.2 | |
|--|------------------------|-------------------------|----------------------|-----------|------------|----------|----------------------------|----------------------------|--------|----------|----------|-----------------|-------------|-------|------|------------|----------------|---|--------------------------|-------------------|
| TELLO MOISE 10. 10. 20. 40. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. | (NOISE SO(| AS A URCE/: IN TO | FUNCTI | <u>.</u> | <u> </u> | - i ž | STANCE STIONS STIONS | FROM S LEE (6 WER (6 | | | ž ^^^ | ETEOROI TEMÍ | LOGY : | . 6 | L H | | AIRCA DOPEC | F 79-7 81 SRAFT SATION FILE W | 3008 | 761 10213 A |
| March Marc | FAR | FIELD | NOISE | | | | ROUND | RUNUP | (SUPPR | ESSED) | ~~ | REL ELTA N | HUMID N. | 8 | × | | 28 9 PAG | MOV 79 | | |
| 82.1 82.4 63.2 84.6 82.3 82.1 84.1 84.1 77.8 76.3 77.5 76.6 77.9 77.9 77.9 77.9 77.9 77.9 77.9 | (OISTANCE ((FEET) | • | 10 | | | 9 | 20 | 9 | 20 | ANGL | 141 | REES) | 110 | 120 | 138 | 140 | 150 | 160 | 170 | 180 |
| 75.6 77.6 77.6 77.6 77.1 77.6 77.9 77.9 77.9 77.9 77.0 75.2 77.4 76.5 75.6 76.9 71.2 69.1 62.7 77.5 77.5 77.5 77.5 77.5 77.5 77.5 7 | 500 | 82. | | 83. | 81. | | 82.1 | 81.1 | 80.1 | 79.2 | 78.3 | 77.5 | | 78.8 | 77.9 | 79.1 | 73.4 | 71.2 | 6.49 | 63.6 |
| 77.6 77.8 78.7 77.1 77.8 77.6 77.6 78.6 78.7 73.8 72.9 72.0 74.2 73.3 74.5 68.9 68.9 68.9 68.9 75.5 77.4 77.1 77.1 77.1 77.1 77.1 68.6 77.4 77.1 77.1 77.1 77.1 67.2 77.3 77.1 67.2 77.3 77.4 77.3 77.4 77.4 77.4 77.5 77.4 77.5 77.4 77.5 77.4 77.5 77.4 77.5 77.4 77.5 77.4 77.5 68.9 68.9 68.9 68.9 68.9 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0 | 162) | 79. | | 81. | 62 | 80.1 | 79.9 | 78.9 | 77.9 | 77.8 | 76.1 | 75.2 | 74.4 | 76.5 | 15.6 | 76.9 | 71.2 | 69.1 | 62.7 | 61.4 |
| 75.2 75.4 76.5 76.6 75.5 77.2 73.3 72.3 71.4 71.5 69.6 71.7 71.9 72.1 65.5 64.7 59.2 72.3 72.3 72.4 72.9 72.1 72.9 72.1 73.1 72.9 73.2 65.2 65.2 65.2 65.2 65.2 65.2 65.2 65 | 315 | 77. | | 78. | 77. | 77.8 | 77.6 | 76.6 | 75.6 | 74.7 | 73.8 | 72.9 | 72.0 | 74.2 | 73.3 | 74.5 | 68.9 | 66.9 | 69.5 | 59.2 |
| 72.6 72.9 73.6 72.4 73.1 72.9 71.8 78.0 69.9 60.9 60.0 65.2 69.5 69.5 69.6 64.1 62.5 55.0 71.3 71.4 71.3 69.3 71.4 71.4 69.3 66.3 65.9 60.9 65.9 61.2 65.9 67.0 61.5 61.2 63.3 71.4 71.3 69.9 71.4 71.4 69.3 66.3 65.9 65.4 64.6 65.6 65.9 67.0 61.5 60.2 53.3 71.4 71.4 71.3 65.0 65.7 65.7 65.4 65.4 65.6 65.9 67.0 61.5 60.2 53.3 71.4 71.4 71.4 65.0 65.8 65.9 61.3 61.3 61.3 61.3 61.3 61.3 61.3 61.3 | - | 75. | | 76. | 7. | 75.5 | 75.3 | 24.2 | 73.3 | 72.3 | 71.4 | 70.5 | 9.6 | 71.7 | 70.9 | 72.1 | 66.5 | 64.7 | 29.5 | 56.9 |
| 70.3 70.4 71.3 69.9 70.7 70.4 66.3 68.3 67.3 66.4 65.4 64.6 66.6 65.9 67.0 61.5 60.2 53.3 67.6 67.6 67.8 67.2 64.5 67.2 64.6 67.8 67.2 67.3 69.9 67.0 67.2 58.3 40.8 67.6 67.2 64.5 67.2 64.6 67.2 67.2 67.2 57.2 57.2 57.3 57.3 57.3 57.3 57.3 57.3 57.3 57.3 | 200 | 72. | 72. | 73. | 72. | 73.1 | 72.9 | 71.8 | 79.8 | 69.8 | 69.9 | 66.0 | 67.2 | 69.2 | 69.5 | 9.69 | 64.1 | 62.5 | 55.8 | 54.6 |
| 64.8 64.9 65.8 64.5 65.4 65.1 63.9 62.9 61.8 61.8 59.9 58.9 61.8 63.2 64.2 58.8 57.8 58.7 64.8 61.8 61.8 61.8 61.8 61.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 61.8 62.8 62.8 62.8 62.8 62.8 62.8 62.8 62 | 630 | 70. | 5. | 71. | 6 9 | 70.7 | 70.4 | 69.3 | 68.3 | 67.3 | 66.4 | 65.4 | 64° 6 | 999 | 62.9 | 67.0 | | 60.2 | 53.3 | 52.1 |
| 64.8 64.9 65.8 64.5 65.4 65.1 63.9 62.9 61.8 60.8 59.9 56.9 60.9 60.3 61.3 56.5 56.8 56.8 65.9 61.9 61.9 61.9 62.8 62.6 62.6 62.2 61.1 59.9 58.9 57.8 56.8 55.9 57.7 57.3 58.1 53.0 52.8 45.1 59.7 57.3 58.1 53.0 52.8 45.1 59.8 59.8 59.8 59.8 59.7 57.3 58.1 53.0 52.8 45.1 59.8 59.8 59.8 59.8 59.7 57.3 58.1 59.8 59.7 57.3 58.1 59.8 59.8 59.8 59.8 59.8 59.8 59.8 59.8 | . | 67. | 67. | 69 | 67. | 66.1 | 67.8 | 66.7 | 65.7 | 64.6 | 63.7 | 62.7 | 61.8 | | 63.2 | 64.2 | | 57.8 | 50.7 | 49.5 |
| 61.9 61.9 62.6 61.6 62.6 62.2 61.1 59.9 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0 | | 4 | | , | 4 | 7 | 7 | 6.2 | 60 | 3 | • | 9 | | 6 | | | 9 | | • | 4 |
| 56.6 55.5 56.3 59.7 56.5 59.7 56.6 55.7 56.6 53.6 52.6 54.4 56.9 54.7 49.7 58.1 42.1 55.6 55.5 56.3 56.3 56.4 56.9 56.7 49.7 58.1 42.1 59.8 55.5 56.3 56.3 56.4 56.4 45.3 58.4 56.9 54.7 49.7 58.1 42.3 57.9 47.9 47.9 47.9 47.9 47.9 47.9 47.9 4 | 1250 | 51. | | 200 | 1 5 | 62.6 | 62.7 | 61.1 | 6.68 | 2 | 27.0 | 56.8 | | 57.7 | 57.X | 54.1 | | | 12 | 4 |
| 55.6 55.8 56.3 56.4 51.2 49.1 50.7 50.4 51.0 46.5 77.0 46.5 52.7 51.0 51.0 52.7 51.0 53.2 52.6 51.3 50.0 46.4 45.3 46.0 46.6 47.0 46.6 47.0 42.5 44.3 35.0 47.9 48.7 48.7 47.4 46.0 46.7 47.5 46.4 45.2 47.0 42.5 47.0 42.5 47.0 47.0 42.5 46.5 47.0 46.5 47.0 42.5 46.5 36.4 37.0 33.2 36.4 33.4 34.5 36.4 37.0 37.0 33.2 36.5 37.2 36.1 37.0 27.0 27.0 27.0 27.0 27 | 1600 | 58. | | 56 | S | 59.7 | 59.2 | 56.0 | 56.0 | 55.7 | 54.6 | 53.6 | 52.6 | 36. | 56.0 | 54.7 | 7.64 | 50.1 | 42.1 | 14 |
| 51.9 51.4 52.7 51.8 53.2 52.6 51.3 58.8 46.7 47.5 46.4 45.3 46.6 46.6 47.8 42.5 38.4 55.4 45.3 35.4 47.9 48.7 47.9 47.9 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 | 2009 | 55. | | 50 | 5.5 | 56.7 | 56.1 | 54.8 | 53.6 | 52.4 | 51.03 | 50.5 | 49.1 | 50.7 | 50.4 | 51.0 | 46.3 | 45.4 | 39.0 | 38.1 |
| 47.9 48.7 47.9 49.5 46.7 47.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.6 33.4 31.6 31.6 33.6 <th< th=""><th>1 2500</th><td>51.</td><td></td><td>52</td><td>51.</td><td>53,2</td><td>52.6</td><td>51.3</td><td>50.0</td><td>48.7</td><td>47.5</td><td>46.4</td><td>45.3</td><td>46.8</td><td>46.6</td><td>47.0</td><td>42.5</td><td>4.4</td><td>35.4</td><td>34.6</td></th<> | 1 2500 | 51. | | 52 | 51. | 53,2 | 52.6 | 51.3 | 50.0 | 48.7 | 47.5 | 46.4 | 45.3 | 46.8 | 46.6 | 47.0 | 42.5 | 4.4 | 35.4 | 34.6 |
| 42.9 43.0 43.0 42.4 41.1 39.0 30.5 37.3 35.1 37.0 37.0 33.2 36.5 26.5 26.1 37.1 37.0 33.2 36.3 26.5 26.5 36.1 37.1 36.3 26.5 27.5 26.2 25.1 31.2 38.9 27.5 27.5 26.2 25.1 27.1 27.5 <th< th=""><th>3150</th><td></td><td></td><td>48.</td><td>£7.</td><td>49.5</td><td>48.7</td><td>4.7.4</td><td>46.0</td><td>44. 7</td><td>43.5</td><td>42.3</td><td>41.2</td><td>42.5</td><td>45.4</td><td>45.6</td><td>38.4</td><td>40.0</td><td>31.4</td><td>31.1</td></th<> | 3150 | | | 48. | £7. | 49.5 | 48.7 | 4.7.4 | 46.0 | 44. 7 | 43.5 | 42.3 | 41.2 | 42.5 | 45.4 | 45.6 | 38.4 | 40.0 | 31.4 | 31.1 |
| 37.6 37.7 38.5 38.1 39.6 37.2 35.8 34.4 33.1 31.9 38.7 31.2 38.9 27.6 51.5 51.2 21.2 21.2 21.2 21.2 21.2 21.2 | 0004) | +2. | | 63 | 4 30 | 44.0 | 43.8 | 45.4 | 41.1 | 39.8 | 38.5 | 37.3 | 36.1 | 37.1 | 37.0 | 37.0 | 33.2 | 36.3 | 26.5 | 26.5 |
| 32.1 32.2 33.8 32.7 34.6 33.2 31.7 38.3 28.9 27.5 26.2 25.1 25.2 24.6 21.9 26.1 15.8 16. 27.4 27.6 28.8 27.6 28.8 27.7 28.3 25.3 23.9 22.5 21.2 19.9 19.6 19.8 18.6 17.8 21.9 11.3 12. 22.6 22.9 23.8 22.6 24.5 23.2 21.7 20.2 18.7 17.3 16.8 14.7 14.2 14.4 12.9 12.2 17.3 6.7 7.1 18.2 18.7 18.8 18.8 9.5 9.8 7.9 12.2 17.3 6.7 7.1 13.5 14.8 13.5 12.7 14.3 13.6 12.8 18.8 9.5 9.8 7.9 7.9 13.1 2.6 3.1 13.5 14.8 13.5 12.7 14.3 13.6 12.8 18.8 9.8 7.9 7.9 13.1 2.6 3.3 13.1 2.6 3.3 13.1 2.6 3.3 13.1 2.6 3.3 13.1 2.6 2.2 8.8 8.8 8.1 7.2 8.7 8.2 6.6 5.1 3.6 2.2 8.8 8.8 8.8 2.8 3.5 8.4 3.3 3.3 3.1 3.2 2.2 1.4 2.8 2.6 2.4 8.8 2.8 2.2 1.4 2.8 2.4 8.8 2.8 2.4 8.8 2.8 3.3 | 2000 | 37. | | 38. | 300 | 39.8 | 30.6 | 37.2 | 35.8 | 34.6 | 33.1 | 31.9 | 30.7 | 31.3 | 31.2 | 30.9 | 27.6 | 31.3 | 21.2 | 21.5 |
| 27.4 27.6 28.8 27.8 29.7 28.3 26.8 25.3 23.9 22.5 21.2 19.9 19.6 19.6 10.6 17.0 21.9 11.3 12. 22.6 22.9 23.8 22.6 24.5 23.2 21.7 20.2 18.7 17.3 16.0 14.7 14.2 14.4 12.9 12.2 17.3 6.7 7. 18.2 18.6 18.4 17.9 19.6 18.6 17.0 15.5 14.1 12.7 11.3 18.0 9.5 9.8 7.9 7.9 13.1 2.6 3. 13.5 14.0 13.5 12.7 14.3 13.6 12.0 18.5 9.0 7.6 6.2 4.9 4.5 4.8 2.8 3.5 8.4 8.5 8.8 8.1 7.2 8.7 8.2 6.6 5.1 3.6 2.2 .8 4.9 4.5 4.8 2.8 3.5 3.3 3.1 3.2 2.2 1.4 2.8 2.6 2.4 .8 | (6380 | 32. | | 33 | 32 | 34.6 | 33.2 | 31.7 | 30.3 | 28.9 | 27.5 | 26.2 | | 25.2 | 25.2 | | 21.9 | 26.1 | 15.0 | 16.3 |
| 22.6 22.9 23.8 22.6 24.5 23.2 21.7 20.2 18.7 17.3 16.8 14.7 14.2 14.4 12.9 12.2 17.3 6.7 7.1 18.2 18.6 18.4 17.9 19.5 18.6 17.8 17.9 17.9 13.1 2.6 3.1 13.5 14.8 13.5 14.8 13.5 14.8 13.5 14.8 13.5 14.8 13.5 14.8 13.5 14.8 13.5 12.7 14.3 13.6 12.8 18.5 9.8 7.6 6.5 6.9 4.9 4.5 4.8 2.8 3.5 9.4 9.5 9.3 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13 | 9000 | 27. | | 28 | 27. | 29.1 | 28.3 | 26.8 | 25.3 | 23, 9 | 22.5 | 21.2 | | 19.6 | 19.8 | | 17.0 | 21.9 | 11.3 | 12.0 |
| ZZ.6 ZZ.9 ZZ.8 ZZ.6 Z4.5 ZZ.2 ZZ.7 ZU.Z 18.7 ZU.6 U 14.7 Z4.2 Z4.4 ZZ.9 ZZ.2 Z7.3 E.7 7. Z8.2 Z8.6 Z8.4 Z7.9 Z9.6 Z8.6 Z7.7 Z Z.4 Z Z.4 Z Z Z Z Z Z Z Z Z Z Z Z Z Z | | | | | , | | | ; | | 1 | • | | 1 | | | | | | | |
| Act los los los los los los los los los los | | 22. | | | 2,5 | j, | 23.5 | 21.7 | 20.5 | 18.7 | 17.3 | 16.0 | 14.7 | 14.2 | 14.4 | 12.9 | 12.2 | 17.3 | • • | 2:5 |
| 13.5 14.0 13.5 12.6 14.3 13.6 12.0 10.5 9.8 7.6 E.2 4.9 4.5 4.6 2.8 3.5 8. 6.5 8.8 8.1 7.2 8.7 8.2 6.6 5.1 3.6 2.2 .8 4.5 4.5 4.5 3.5 3.1 3.2 2.2 1.4 2.8 2.4 .8 | 00677 | 0 | | | | ۴. | 1000 | 7.0 | 10°0 | 7 % 7 | 1.21 | 1100 | | 6 · F | 0. | | | 1001 | 9.7 | ? |
| 5.5 5.6 5.1 7.2 5.7 5.2 5.6 5.1 3.5 2.2 .8 3.1 3.2 2.2 1.4 2.8 2.4 .8 | | 13 | | | 12. | • | 13.6 | 12.0 | 10.5 | . | 9. | £.2 | • | | • | 2.8 | 3.5 | | | |
| 501 302 202 104 208 204 o | 20002 | 6 | | | • | 200 | 2.0 | 9.0 | 5.1 | 9.6 | 2.2 | • | | | | | | J. J. | | |
| _ | 25600 | ň | | | 4 | ? | 7. 2 | • | | | | | | | | | | | | |

| | DISTANCE | = 250 | FEET | | | | | | | | | | | TEST | OMEGA 8.2 TEST 79-761-001 | -001 |
|--|--|--------------------------|-----------------------|-----------------------------------|--|---------------------------|-------------------------|------|---------------------------------------|------------------|--------------------------------|---|----------|----------|---|--------------------------------|
| NOISE SOURCE/SUBJECT: F-15 IN THE AF3ZA-23 SUPPRESSOR FAR-FIELD NOISE | SOURCE/SUBJECT 15 IN THE 32A-23 SUPPRES R-FIELD NOISE | JECT 8 PRESSOR ISE | • • • • • | C OPERATIONS IDLE P SINGLE GROUND | RATION: IDLE POWER (652 F SINGLE ENGINE GROUND RUNUP (SUF | R (65% GINE NUP (SI | 5% RPH) (Suppressed) | | TEOROL TEHF BAR REL LTA N | | = 59 =29.92 = 70 0 08 | 7 1 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × 5 × | | P S OF E | RUN 01 AIRCRAFT CODE 7 OPERATION CODE 0 PROFILE VERSION 28 NOV 79 PAGE J1 | ODE 761 ODE 06213 SION A |
| # 1 ! ! ! ! ! | | | | PEPNLT | | | | A=AL | | | | TEALT | | | | |
| • | | • | | | | | | | • | | | | <u>.</u> | ٠ | | |
| • | : : | • | • | • | • | • | • | • | • • | • | • | 4 | • | • | | • |
| 10 | • • | • | _ | • | • | | • | • | • | | • | ⋖ | - | • | ۵ | • |
| 20 | •• | • | | •• | • • | | | • • | • • | | • • | ⋖ | <u>.</u> | • • | ۵ | • • |
| 30 | . : | • | • | • | • | • | • | • | • • | • | • | . A . | • | • | • | • • |
| 01 | •• | • • | | • • | • • | | | . • | • • | | | ⋖ | | • • | Q. | |
| . V | •• | • • | | | • • | | | | • • | | • • | < < | | • • | ٥ | • • |
| | • | • | | • • | • | | | • | • | | • | • | | • | | • |
| ר ק פ | · • | • | • | • | • | • | • | • | • • | • | • | | • | • | • | • |
| E 70 | • | • 1 | | • • | • | | • | • • | • | | • (| | | • | ۵ | • |
| I 80 | •• | • | | | • • | | | • • | • • | | Α | - | | • • | | • |
| 96 N | . : . : | • | • | • | • | • | • | • | • | • | Α | - | • | • | • | • |
| D E 168 | •• | •• | • • | •• | • • | | • • | | • • | | ٠. | - | | • 0 | | • • |
| G R 110 | •• | • | | •• | • • | | | • • | • • | | ٧. | — | | •• | | • • |
| E 120 | . : . : | • | • | • | • | • | • | • | • • | • | • • | • • | • | . 4 | • | • |
| S 130 | •• | •• | | •• | • • | | | | • • | | • | - | | • 0 | | • • |
| 140 | •• | • | | | • • | | | • • | • • | | • | - | | • • | | • • |
| 150 | . : . : | • | • | • | • | • | • | • | • • | • | A .T. | • | • | • | • | • |
| 160 | •• | •• | | • • | • • | | • • | ٠. | • • | ⋖ | ٠.: | J | ٠. | • • | | • • |
| 170 | •• | •• | | •• | •• | | • • | • • | • ◀ | - | • • | ۵ | • - | • • | | • • |
| 180 | | • | • | • | • | • | • | • | . A. | • | • | • | • | • | • | • |
| | • | | | • | • | | • | • | • | | • | , , | | • | | • |
| | | | | | | | | | | 1 1 1 1 | | Í | | | | |

| TABLE | HAL | SOUND BAND 250 | PR | ES SURE T | LE VEL | (08) | ! | | | | | | | 1000 | DENTIFO OMEGA | FICATION 8.2 79-761-0 | ON: | |
|-------------------------------|---------------------------------------|----------------------|------|---------------------|---|------------|--------------|--------------|------------|---|----------|-------------------|-------------|------|--|-----------------------------|--------------------|-------------------|
| NOISE F-15 AF32 FAR- | CE/SUBJE THE SUPPRES D NOISE | CT t SOR | | OPERA SON SIN | ERATIONS 80% RPH SINGLE EI GROUND RI | . 23 | | SSED | | L R B E E E E E E E E E E E E E E E E E E | RESS H | 29 92 70 70 70 08 | A N N N H C | | KUN UZ AIRCRAFT OPERATION PROFILE V 28 NOV 79 PAGE CZ | 00.00 | ODE ODE Sion | 761 00219 A |
| (BAND CENTER (FREQ (HZ) | 9 | 15 | 20 | 30 | 0 7 | 50 | 99 | ANGL 70 6 | E (DE | GREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 20 | 75 | 75 | 22 | 76 | 75 | 74 | 73 | 2 | ~ | ~ | ø | 7.1 | 72 | 73 | 73 | 74 | | 92 |
| . 63 | | | 22 | 92 | 22 | 72 | 72 | 2 7 | · ~ | ~ | ~ | 7.7 | 20 | 72 | * | 75 | 74 | 75 |
| 90 | 73 | 7,4 | 15 | 92 | 75 | 1.4 | 42 | 4 | m | _ | ~ | 70 | 72 | 73 | 7. | 74 | | 14 |
| 100 | | | 15 | 92 | 75 | 75 | 5 | 3 7 | m | ~ | _ | 72 | 72 | 72 | * | 73 | 74 | * |
| 125 | | 11 | 3 | 90 | 43 | 43 | 78 | 7 7 | ın | _ | _ | 7.4 | 74 | 75 | 73 | 72 | 7.4 | 22 |
| 160 | | | 77 | 11 | 77 | 22 | 4 ! | <u>۱</u> | ~ | ~ 1 | ~ | 7. | 72 | 72 | 69 | 2 | 70 | 72 |
| 200 | | | 77 | 75 | 21 | 92 | 5.2 | 7 | m i | ~ 1 | ~ | 0 / | 69 | 9 | 9 | 67 | 99 | 69 |
| 162 | \$ f | 92 | 77 | 76 | 5 2 | * : | * * * | ~ ∘ | m (| ~ ` | • | 7 | 9 | 19 | 4 (| 9 c | 9 1 | 9 : |
| 610 | | | t u | . · | * : | 2 1 | 7.0 | o 4 | | 0 u | 0 4 | 0 3 | 0 0 | 6 4 | 9 9 | ה ה ה | 7 2 | ָ מַ |
| 596 | 20 | 70 | 2 12 | 72 | 73 | 22 | 71 | 20 02 | 8 67 | 9 9 | 6.0 | 9 | 95 | 9 | , r 0 & | 26 | 0 M | 200 |
| (630 | 71 | 2 | 73 | 7.2 | 73 | 73 | 7.7 | 9 | - 00 | 9 | φ. | 63 | 62 | 61 | 20 | 57 | 16 10 | 51 |
| 900 | 69 | 92 | 72 | 74 | 72 | 71 | 70 | 9 | 2 | • | 9 | 19 | 9 | 62 | 29 | 25 | 55 | 25 |
| 1000 | 68 | 69 | 72 | 73 | 72 | 7.0 | 68 | 9 2 | g | 9 | 9 | 61 | 61 | 61 | 23 | 25 | 54 | 25 |
| 1250 | | 68 | 72 | 71 | 71 | 69 | 68 | 9 ~ | . | 9 | 9 | 61 | 9 | 9 | 28 | 26 | 52 | 20 |
| 1600 | 29 | 69 | 72 | 72 | 70 | 68 | 29 | 9 | ĸ | ဖ | ဖ | 61 | 61 | 9 | 25 | 22 | 53 | 21 |
| 2000 | 29 | 69 | 23 | 72 | 7 | 69 | 29 | 9 | SO I | 9 | 9 | 23 | 9 | 20 | 26 | 53 | 51 | 20 |
| 2500 | | 89 | 72 | 7.7 | Z: | 20 | 9 | 2 | rv. | 9 | 9 | 23 | 20 | 29 | 52 | 27 | 5 | 4 |
| 3150 | | 6 8 | 73 | 7. | 7 | 20 | 69 | 9 | ဖ | 9 | G | 28 | 25 | 21 | 52 | 25 | 20 | 64 |
| 8 | | 69 | 22 | 72 | 73 | 71 | 20 | 8 | 2 | 9 | ø | 23 | 53 | 58 | 26 | 25 | 20 00 | |
| 5400 | 1 9 | 68 | 73 | 7.1 | 7 | 71 | 69 | 8 | 9 | 9 | 9 | 29 | 28 | 28 | 22 | 21 | 4 | |
| 30 | | 99 | 7.1 | 69 | 68 | 68 | 99 | • | m | φ | w | 54 | 24 | 53 | 51 | 24 | 4 4 | |
| 0009 | 28 | 63 | 69 | 99 | 65 | 99 | 64 | 9 29 | | S. | S | 51 | 20 | 64 | 47 | ‡ | 41 | 39 |
| 10300 | 7. 4 | 23 | 99 | 63 | 9 | 62 | 9 | 8 | 9 | S. | Ω. | 42 | 45 | 45 | 6 4 | 9 | 39 | |
| (OVERALL | 86 | 87 | 69 | 88 | 87 | 86 | 85 | 85 8 | 4 83 | 82 | 81 | 81 | 81 | 82 | 82 | 81 | 82 | 8 |
|) | | ****** | 1 | | | | | 11111 | | | | | | | | | | |

| | AS A FI | FUNCTION | N OF | , m | AND DISTANCE | | FROM S | SOURCE | | | | | | | |) OMEGA | OHEGA 8.2 TEST 79-761-00 | 2 61-001 | |
|---|--|--------------------------------------|----------------------------------|-------------------------------------|--|---|------------------------------|--|------------------------------|--|--|--------------------------------------|--------------------------------------|---------------------------------------|------------------------------|--|--|--------------------------------------|-------------------------------------|
| 0118 | E SOURCE/SUBJECT: F-15 IN THE AF32A-23 SUPPRESSOR FAR-FIELD NOISE | BJECT 1 PPRESS OISE | • | | 1 0 1 0 1 0 1 0 1 0 1 0 1 0 | OPERATIONS 80% RPH SINGLE GROUND | ENGINE | (SUPPRESSED) | ESSED) | T 0 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N # | LOGY: PRESS #29. HUMID # | # 59 #29,92 # 70 | FHX | i ! ! ! ! | -) RUN G) AIRCRA) OPERAT) PROFIL) 28 NOV | RUN 02 ALCRATION CODE OPERTION CODE PROFILE VERSION 28 NOV 79 PAGE 02 | CODE CODE ERSION | 761 00219 • A |
| DISTANCE (FEET) | | 97 | 20 | 98 | 3 | 50 | 9.9 | 2 | ANGLE | | (DEGREES) 90 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 250 250 315 | 95.7 | 97.6 95.3 | 101.9 99.6 97.2 | 166. 98. | 100.1 97.8 95.4 | 99.0 | 97.7 95.4 | 96.4 94.1 | 95.0 | 93.00 94.00 9.00 | 92.4 90.1 87.7 | 91.1 88.8 86.4 | 86.9 | 86.09 | 88.1 85.8 83.4 | 86.6 84.2 | 84.6 82.2 79.8 | 82.5 | 84.5 82.2 79.8 |
| 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 86.00 80 80.00 80.00 80.00 80.00 80 80 80 80 80 80 80 80 80 80 80 80 8 | 90°4 87°9 85°2 82°3 | 925.0 89.0 86.2 | | 905 905 87.5 84.5 | 8 9 9 8 8 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 | 87.8 87.8 82.1 | 86.7 86.7 80.7 | 85.5 | 86.5 83.9 81.1 | 85.6 82.6 77.6 | 83.9 81.3 78.5 | 79.0 | 81.6 79.0 76.3 | 81.0 78.5 75.7 72.9 | 79.3 76.8 74.1 71.2 | 77.4.9 72.1 69.2 | 77.4 | 77.4 74.8 72.0 69.1 |
| 1000 1250 1600 2000 2500 | 77.8 74.9 71.9 58.6 | 79.3 76.0 72.6 68.9 64.9 | 83.1 76.2 72.4 68.3 | 91. 75. 71. | 81.6 78.2 74.8 71.1 66.9 | 80.4 77.1 73.7 69.9 65.8 | 72.1 | 77.0 74.5 74.4 67.3 | 76.5 73.2 69.8 66.0 | 75.2 71.9 68.5 64.7 | 73.9 70.7 67.1 63.4 | 72.7 69.4 65.9 62.1 58.0 | 71.1 67.9 64.5 61.0 | 70.6 67.5 64.2 60.6 | 70.0 66.8 63.4 59.7 | 66.1 64.9 57.5 72.5 | 566 506 506 506 506 506 506 506 506 506 | 56.0 56.0 56.0 56.0 56.0 | 65.9 58.5 58.5 58.9 |
| 31.50 40.00 50.00 63.00 00.00 | 60 44 44 44 44 44 44 | 60°3 55°4 49°8 44°6 37°9 | 63.64 53.53 47.53 42.53 | @ <i>WW</i> 4 4 | 500 500 500 500 500 500 500 500 500 500 | 661.6 561.9 671.9 45.3 | 55.5 55.5 50.0 38.3 | 34 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 57.5 52.6 40.1 34.3 | 88 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 56.00 40.00 40.00 40.00 | 53.4 47.8 41.7 34.9 28.1 | 52.0 46.4 40.2 33.2 26.0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 50.2 44.6 38.6 31.4 | 47.8 41.7 34.4 25.9 16.6 | 45.1 39.0 31.0 21.6 | 443 26.6 16.6 6.6 4.6 | 41.8 34.0 23.4 12.7 2.1 |
| 10000 12500 16800 2088 25000 | 31.3 22.7 13.9 5.1 | 31.3 22.6 11.6 | 28.0 19.0 19.0 19.0 | 36. 29. 19. 9. 4. 4. | 24.8 18,4 9,6 | 33.8 26.4 16.6 6.7 | 31.6 24.0 13.1 2.1 | 29.4 21.1 10.9 | 27.3 18.7 6.8 | 24.5 45.5 6.6 | 22°3 12°1 1°9 | 16.4 | 16.3 6.6 | 3.5 | 11.2 | 7.3 | | | |

| SOURCE 12 12 13 14 15 15 15 15 15 15 15 | 2 295 2 | 20 00 00 00 00 00 00 00 00 00 00 00 00 0 | 60 C C C C C C C C C C C C C C C C C C C | • • • • • • • • • • • • • • • • • • • | ENCINE RUNUP (SUPPI 60 70 98.3 96.9 98.6 92.5 93.6 92.2 93.6 92.2 | g 6, | | METEOROLOGYS TEMP BAR PRES REL HUMI | L 06Y 1 | | | | AIRCRAFT OPERATION PROFILE VE | RAFT CO | _ | + |
|---|--|--|--|---------------------------------------|---|---------|------|-------------------------------------|--------------------|--------------------------|-----------------|------|-------------------------------|-----------------|--------------|------|
| | 6 102.5 3 100.2 9 97.8 4 95.3 | 8 | 4 0000000 00000000 | | ť | 6 | | | PRESS : HUMID : | 229.92 229.92 2 70 | F IN HG X | |) 28 NOV 79 | LE VERSION COVE | CODE 00219) | A 4 |
| ଦେବ ବେ ବେ ବେ ବ ଦୁସ୍ଥି ପ୍ରତିଶ୍ୱ ଅପ୍ତାଧିକ ବେ ବ | 102. 100. 97. 95. | 00000000000000000000000000000000000000 | 60000000000000000000000000000000000000 | | M D W H W | σ. | 0 | (DEGREES) 90 100 | 110 | 120 | 130 | 071 | 150 1 | 169 1 | 170 1 | 180 |
| \$\\ \phi \qq \qq \qq \qq \qq \qq \qq \qq \qq \q | 95. | 0 0 0 0 0 0 0 0 0 0 | 5 W O 41 | | ω → ω | | | 92.4 | 91.1 | 89.7 | | 88.1 | 4 0 | | | 84.5 |
| 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 92. | 91. | ⊕ +1 | | ĸ | | | 87.7 85.2 | 86.4 83.9 | | | | a M | | | 7.6 |
| 81.2 | 89 | 4 | , | | . ~ | 4 65.2 | 63.9 | 82.6 79.8 | 81.3 78.5 | | 79.0 | 1A A | | 74.9 7 | 74.9 7 | 9 . |
| ; | 86 | 920 | ~ | | . 40 | | | 77.0 | 75.7 | | | _ | . ~ | | | 1.6 |
| 7.0 | | 82. | • | | κ. | 9. | | 73.9 | | ۰. | | | ~ (| | | 6.0 |
| 72.4 | 26. | , ç, | o 4 | | t o | | | 67.1 | | * 0 | | | | | | 6.0 |
| (2000 69.2 68.9 (26.6 66.1 64.0 | 9 73.0 | 72. | ~ 4 | 70.6 69 | 69.2 67.9 | 99 | 64.7 | 6.00 A | | ω ۴ | | | 57.5 5 | | | 0.0 |
| 68.5 | 6. | • | | | | 57. | | | | . w | | | _ | | | |
| 55° 4 | 5 K | 59° 2 | 58,3 52,8 | 57.5 56 52.8 58 | 56.0 54. | .5 52.6 | | 49.3 | 47.8 | 46.8 | 45.6 45.6 | 38.6 | | 39.8 3 | 36.4 3 | 34.0 |
| 6300 43.4 | | 4.0 | 9 | | | ġ | 38 | 36.8 | | | | | . თ | | | 2.7 |
| 37.5 | 9 42 | 4 5 | ø | | 4 | 34. | 32. | 30.5 | - | - | | m | • | | | 2.1 |
| 31.3 31. | 3 36. | 36 | S | • | | 27. | | 22.3 | 18.4 | | 14.1 | 11.2 | 7.3 | | | |
| (12508 22.7 22. | 28. | 2 2 4 4 | 27.3 | | 24.8 21.1 | 18.7 | 15.5 | 12.1 | 8.2 | و | 3. | • | | | | |
| 5.1 | 4 10.2 | • | ، و | 6.7 | | 3 | | | | | | | | | | |
| 20062 | D • 1 | • | • | | | | | | | | | | | | | |

| 1 | | | .~ ~ | _ | ~ | | - 1 | ` ~ | ^ | ^ | | _ | ^ | ^ | _ | | • | _ | _ | ^ | ~ ~ |
|--|--|--------------------|--------------|------|--------------|------------|------------|--------|-------------|----------|--------------------------|---------|------|-------------|--------|------------|-------|-------|-------|-----------|---------------------|
| 761 | 4 | 160 | 68.7 | 64.5 | 62.4 | 57.7 | 55.5 | 52.5 | 49.6 | 46.5 | 43.1 | 35.4 | 31.1 | 26.8 | 22.3 | 18.7 | 15.1 | 11.4 | 7.9 | 4.5 | 1.2 |
| | | 170 | 68.6 66.5 | 64.4 | 62.3 | 57.7 | 55.2 | 52.6 | 49.8 | 46.8 | 43.6 | 36.5 | 32.6 | 28.4 | 24.0 | 20.5 | 16.1 | 12.0 | 8.0 | 4.3 | • |
| IFICATION: A 8.2 79-761-00 02 RAFT COD | OV 79 F2 | 160 | 69.5 | 65.3 | 63.1 | 56.5 | 56.1 | 53.5 | | 48.0 | 15.0 | 38.3 | 34.6 | 30.5 | 26.2 | 25.2 | 18.0 | 13.5 | 9:0 | 4.6 | * |
| DENIFICATION DESCRIPTION DESCRIPTION TEST 79-761-06 NUM 02 AIRCRAFT CODE | PROFILE 26 NOV PAGE F | 150 | 71.6 | 67.3 | | 60°4°5 | 58.0 | 55.4 | 52.7 | 6 0 6 4 | 6.0 | . P. O. | 36.6 | 32.5 | 28.1 | 24.1 | 19.8 | 15.3 | 9.01 | 5.9 | 1.5 |
| | | 140 | 9 6 | m | - 4 (| 62.5 | | | | | 4.0 | ۰. | • | 6 | S. | . | | m | | 7.3 | 1 |
| | S I | 30 1 | . | . + | σ, | 63.2 | • | m | و | • | 9 6 6 4 | | | ~ | m | ~ | | - | ~ | 9. | • |
| 65 | 29.92 70 08 | 120 1 | 8 L | . 10 | PO (| 63.7 6 | N | 58.7 5 | | ~ | 50.3 4 | . ~ | 6 | • | m | . | ~ | ~ | 5 | 8.9 | ~ |
| | PRESS # | | ™ < | | ۲. | ; 0 | r. | 6 | N | . | w 4 | | m | m | σ | • | 6 | 6 | ტ | 9 | ~ |
| 90 70E | <u> </u> | 110 | | | | 2 65. | | 1 59. | | | 7 51. | | | 5 37. | | | | | | 9. | |
| HETEOROLOGY TEMP | BI RI DELTA | DEGREES) | 77. | 73 | 20. | 99 | 63. | 61. | 58. | 55. | 52 | 9 | 42. | 38. | 34. | 6 M | 25. | 21. | 16. | 10. | 'n |
| ~~ | į | 9 60 | 78.8 | 74.4 | ż, | 67.6 | 6.49 | 62.3 | 59.6 | 56.8 | 54.0 | 47.5 | 43.8 | 39.7 | 35.3 | 31.3 | 27.0 | 22.4 | 17.3 | 12.0 | 9 • 9 |
| | ESSED) | ANGLE 80 | 80.1 | 75.7 | 73.4 | 68.6 | 66.1 | 63.5 | 60.8 | 58.1 | 55.2 | 48.7 | 45.0 | 6.04 | 36.5 | 32.5 | 28.2 | 23.6 | 18.6 | 13.2 | 7.5 |
| SOURCE | (SUPPRESSED) | 70 | 81.4 | 77.0 | 74.7 | 69.8 | | 64.8 | 62.1 | | 50° 20° 20° 20° | | | | | 33.8 | | | | 14.5 | |
| FROH SC | RUNUP | 9 | 82.7 80.5 | 78.2 | 75.9 | 7:12 | 9.99 | 66.0 | 63.3 | 50.5 | 54.6 | 51.2 | 47.6 | 43.4 | 39.0 | 35.1 | 30.8 | 26.2 | 21.2 | 15.7 | 9.9 |
| , - , - | OC NO. | 5.0 | 84.0 | 79.6 | 77.2 | 72.4 | 69.9 | 67.3 | 9.49 | 61.8 | 7.00 10.00 10.00 | 52.5 | 48.8 | 44.7 | 40° | 36.4 | 32.1 | 27.5 | 22,5 | 17.0 | 11.2 |
| LEVEL ND DIST | SI 68 | 3 | 85.182.9 | 6 | å, | % % | ÷ | 68.4 | | | 60.1 57.0 | | 6 64 | 45.8 | 41.4 | 37.4 | 33.0 | 28.3 | 23, 1 | 17.6 | 11.0 |
| OUND LE AN | | 30 | 85.6 | 4 | å, | | ÷ | 9.1 | 6. 4 | 3.7 | 60°8 57°8 | . t | 8.8 | • | 2° 4 | ۳ 9 | 3.9 | 9° 1 | 3,9 | m | 5 .3 |
| RALL OF AN | | 20 | 86.6 | | 79.7 | | m | 69.6 | | | 61.8 | | | ۰ | | | 9 | • | ~ | 16.3 | ev. |
| IGHTED OVERALL S FUNCTION OF ANG SUBJECT® | 3 SUPPRESSOR LD NOISE | 10 | - | | | 71.3 | | | | | 57.8 | | | | 39.0 | | | | | 15.6 1 | |
| A-WEIGHTED OVERALL AS A FUNCTION OF A SOURCE/SUBJECT® | AF32A-23 SUPPRESSOR FAR-FIELD NOISE | • | 81.4 B | | . | 70.3 7 | _ | 65.5 6 | 6 | ۰, | 57.5 54.4 S | | • | -4 (| 36.7 3 | - | | | | 15.7 1 | |
| 100 | | . CE | | | | | | | | | | | | | | | | | | | |
| TABLES | (AF 32A-2 (FAR-FIE (| DISTANCE (FEET) | 2 c c c | 315 | 4 | 920 | 089 | 1000 | 1250 | 1600 | 25000 | 3150 | 4000 | 2000 | 9779 | 9000 | 10000 | 12500 | 16000 | 20000 | 25000 |
| 1 | | | | _ | - . | | - . | | _ | . | | - | _ | - | _ | | | J | J | J | - - |

| FICATION: 8.2 79-761-801 | 2 FT CODE 761 ION CODE 00219 E VERSION A 79 | 170 180 | 5 68.6 68.7 | 9 | 62.3 | 57.5 | 55.5 | F 2.6 | 6.6 | 46.8 | 43.6 | 40.2 | 36.5 | 32.6 | 76.1 | 2 20.2 18.7 | 16.1 | 12.0 | 6.1 7.9 | M of |
|--|---|--------------------|----------------------|------|-------|---------------------------------------|------|-------|--------|------|------------|------|--------------|---|----------------|---------------|-------|-------|----------|-------|
|) IDENTIFICATIONS) OMEGA 8.2) TEST 79-761-00 | MONCAFT OPERATION PROFILE VE ABOUT 79 PAGE G2 | 150 160 | 71.6 69.5 | M | | | | | | • | 6 | _ | m : | 35.5 | ٠ - | 24.1 22.2 | • | M | 10.6 9.6 | • |
| | 9 | 140 | 73.6 | 69.3 | 67.1 | 62.5 | 60.0 | 67. E | | 52.0 | 49.1 | 45.9 | 42.6 | 26.9 | 30.5 | 26.4 | | | 12.4 | |
| | 59 F 92 IN 70 X | 130 | 3 74.4 | | | | | | 55 | 52. | 6 9 | | £ 3 | 39.6 | 3 7 | | | | 13.2 | |
| | 064* PRESS =29. HUMID = -3.0 DB | 120 | 3 75.3 | 71. | 7 68. | • • • • • • • • • • • • • • • • • • • | | a | ٠ ٨ | | ĸ | 4 | 0 | 2°04 2 | , σ | | v | | 9 13.9 | g |
| | HETEOROLOGYS TEMP BAR PRES REL HUHI DELTA N = | ES) | | · ~ | σ, | 5.2 65. | ~ | | 3.4 57 | 9 | ~ | ٠ | m : | 42.6 41. |) - | . | | . + | 16.1 14. | • |
| | HETE | OEGRE 90 1 | 78.8 77 | | | | | | | | | | | 40.04 | | | _ | | 17.3 16 | _ |
| (DBA) | ESSED) | ANGLE 80 | 80.1 | ٠, | | . | +4 | u | ۰ م | - | ~ | _ | _ | | , r | ın | • | و ر | 10.6 | ~ |
| LEVEL (| ns: | 2 | 82. | 77. | 5 | | 67. | 65 | 62. | 59. | 57. | 53. | 200 | 40.0 | 300 | 33. | 29. | 24. | 19.9 | 14. |
| SOUND | E E E | 3 | 63. | 2 | 9. | | 69 | 66. | | 61. | | 59. | 51. | | 36 | 35 | Ø | 26. | 5 21.2 | 15. |
| DISTANCE | SIG | 9 | 5.7 64.7 2.5 A2.5 | , ~ | ٠, | <i>o</i> N | 9 | ÷ | | | | | | 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | _ | | 1.1 22.5 | ۰. |
| SHTED E AND | 940 0 | 3 88 | 86.2 85 84.6 83 | | | · | 2 | | | m | ι, | * | , | 51.5 5U | ی ر | 5 | 0 | - | 23.9 23. | m |
| D, A- | w O | 20 | | . ~ | | 75.55 | • | | 67.5 6 | | 61.7 | | | 21.0 | | - | | | 23.7 2 | |
| CORRECTE | UBJECT & E UPPRESS(NOISE | 10 | 82.8 | | 76.1 | 7.1.3 | 68.8 | 666.2 | 63.5 | | 57. | 54 | 51: | | 39.0 | 34.9 | 30.6 | | 20. | |
| TONE-C | RCE/ IN 1 160 | | 82.0 | 77.7 | 75.5 | 70.9 | 68.5 | 66.0 | 63.4 | 60.8 | 58.0 | 54.0 | 51.5 | | 38.9 | 34.8 | 30.5 | 25.9 | 21.0 | 15.7 |
| TABLES | NOISE S F=1 AF3 FAR | DISTANCE (FEET) | 200 | 315 | 9 0 | 9 P | = | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | | 6390 | 80.00 | 10000 | 12500 | 16000 | 20000 |

| (TABLE: NOR! | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUN SAND 250 |) PRE FEET | SSURE | SSURE LEVEL | (08) | | | | | | | | | 0100 | IDENTIF: OMEGA TEST 7 | 12 23 | - NO - | |
|-------------------------------|--|---------------------|---------------|-------------------------------|-------------------|--------------------------|--------|----------|------------|--------|--------------|----------|--------------------|--------|------|-----------------------------|------------|-------------------|-------------------|
| NOISE F-15 AF32 FAR- | SUBJE PPRES VOISE | SOR | | OPERA MILI SINC GROU | TI JE | II POWER ENGINE RUNUP (S | K (91% | RPA | 2 6 | | PRES HUNI | # 50 m | 59 F 70 % 08 | 9 I | | PERA PERA ROFIL | _ w _ | DE ION | 761 00204 A |
| (BAND CENTER (FREQ (HZ) | • | = | 20 | 30 | 9 | 50 | 5 | ANG ANG | 6LE (0 | 0662EE | S) 100 | 1 01 | 20 1 | 30 1 | 0,7 | 150 | 160 | 170 | 160 |
| 20 | 81 | 82 | 83 | 82 | 81 | 79 | 79 | 6 | 82 | 7.8 | 77 | | 60 | 62 | 90 | 90 | 81 | 82 | 96 |
| 63 | 9 | 83 | 83 | | 79 | 11 | 77 | ~ | 77 | 77 | 77 | _ | 92 | 9, | 7.8 | 90 | 86 | 90 | 81 |
| 98 | 42 | 62 | 79 | 9 | 62 | 62 | 78 | 80 | 77 | 77 | 92 | م | 92 | 77 | 11 | 80 | 80 | 81 | P) |
| 100 | 78 | 79 | 79 | 78 | 78 | 22 | 77 | 2 | 77 | 11 | 11 | ~ | 62 | 11 | 11 | 78 | 80 | 81 | 81 |
| 125 | 80 | 96 | 60 | 85 | 6 | 8 | 82 | ~ | 18 | 90 | 80 | о | 2 · | 18 | 18 | 62 | 81 | ₹ 1 0 1 | 1 |
| 160 | 2 A 80 G | 9 4 | 2 6 | M • | # (6) | | 200 | N (| 28 | # C | 4 6 | a | - T | 0 t | - F | 5; | 6 ; | 7. | 2 1 |
| 202 | ? ¢ | 0 4 | 0 K | 7 6 | 2 C |) (| 3 5 | V 6 | 10 | 9 0 | ۲ م د د | 0 / 0 | 7 B | - K | - L | 2 2 | - K | - M | |
| 315 | 82 | 81 | 9 | 83 | 83 | 82 | 81 | | 29 | 2 | 78 | . ~ | 80 | 23 | 23 | 22 | 0 ~ | 70 | 70 |
| 004 | 85 | 82 | 85 | 4 9 | 92 | 83 | 82 | 6 | 62 | 77 | 92 | r. | 73 | 7.1 | 69 | 20 | 68 | 99 | 99 |
| 280 | 48 | 40 | 90 | 85 | 3 6 | 83 | 81 | • | 78 | 77 | 75 | m | 73 | 73 | 71 | 11 | 69 | 99 | 99 |
| (630 | 85 | 48 | 98 | 88 | 87 | 95 | 83 | | 62 | 77 | 25 | m | 72 | 72 | 7.1 | 72 | 70 | 29 | 65 |
| 909 | 83 | 83 | 82 | 88 | 86 | 83 | 81 | | 7.8 | 92 | 4. | m | 22 | 71 | 72 | 73 | 71 | 69 | 99 |
| 1000 | 91 | 91 | 9 (| 88 | 8 2 | 83 | 81 | 6 | 77 | 75 | 73 | -4 | 69 | 69 | 70 | 7. | 68 | 99 | 63 |
| 1250 | 81 | 91 | 92 | 3 6 | 40 | 90 | 78 | ۰ | 74 | 23 | 7.1 | σ. | 89 | 68 | 29 | 99 | 99 | 49 | 63 |
| 1600 | 0 g | 97 | 9 9 | 90 | 25 | 90 | 78 | . | 5 | 72 | 20 | ● • | 29 | 29 | 29 | 29 | 99 | 49 | † |
| 2000 | 6 i | 82 | 82 | | 7 0 | 62 | 77 | ، و | 4. | 72 | 9 | . | 9 : | 99 | 99 | 9 | 79 | 93 | 1 9 |
| 1162 | ٣; | 10 | 200 | 3 | 29 | 5 ; | 2 | v . | ۲ <u>.</u> | 2 | 9 | ، م | ا و | 62 | 92 | 5 1 | 29 | 29 | 9 |
| 2150 | 5 (| 9 : | G C | † (| 25 | 20 : | 9 1 | ۰ | . | 2/ | 69 | _ | ٠ ا | 90 | * | 9 | 9 | 9 | * |
| 9074 | 79 | 81 | 96 | 8 | 4 | 81 | 79 | 9 | 4 | 72 | 20 | 60 | 55 | 99 | | 29 | 65 | 62 | 3 |
| | 26 | 28 | 92 | 82 | 8 | 82 | 92 | m | 77 | 69 | 29 | | 25 | 63 | 62 | † | 62 | 62 | 62 |
| 6300 | 1/ | 92 | 83 | 9 | 29 | 92 | 73 | H | 69 | 99 | 9 | ~ | 59 | 59 | | 8 | 20 | 50 50 | 25 |
| 9000 | 72 | * | 9 | 80 | 76 | 73 | 20 | 2 | 65 | 29 | | 2 | 26 | 57 | | 26 | 5 | 26 | S. |
| 16000 | 20 | Z | 7.7 | 92 | 7. | 2 | 29 | 4 | 19 | 58 | | ~ | 25 | 53 | | 25 | 21 | 21 | 21 |
| (OVERALL | 95 | 8 | 96 | 86 | 26 | 95 | 93 | 95 | 91 | 06 | 69 | 88 | 69 | 86 | 88 | 68 | 69 | 8 | 96 |
| | | | | | | 9000 | | | | | | | | | | | | | |

| FUNCTION OF ANGLE AND DISTANCE FROM SOURCE CALLITARY POWER (31% RPH) PERPESS = 99 2 IN HG | | PERCE | PERCEIVED NOISE | _ | | (PN0B) | | | | | | | | | | |) IDENTI | IDENTIFICATION ONEGA 8.2 | r I ON 8 | |
|--|-------------|------------------|-----------------|-------|------------|------------|----------------------------|-----------|--------|--------------|-------|------------------------|---|-------|------|------|--------------|-------------------------------------|--------------|---------------------|
| FATS BOUNCE/SUBALECTT (OPERATION) FALS RPH (STATE RPH (STATE RPH | | AS A F | UNCTIC | 5 | w i | NO DIS | | FROM S | OURCE | | | | | | | |) TEST | 79-7 | 79-761-001 | |
| FAR-FIELD NOISE (GROUND RUNUP (SUPPRESSED)) DELTA N = -3.0 DB 1057ANCE (FEET) 0 10 20 30 40 50 60 70 80 90 10 10 120 130 140 170 105 105 105 105 100 110 120 130 140 170 110 110 110 110 110 110 110 110 11 | 018 | RCE/SU IN THE | BJECT | 10% | | OPERA | TIONS TILITAR TINGLE | Y POWE | | | | ETEOROI TEMI BAR | I • • • • • • • • • • • • • • • • • • • | | L I | | PROFE | AIRCRAFT Operation Profile vi | CODE | 761 00204 N A |
| 200 1077 ANCE 100 107 6 109-1 112-7 112-1 110-7 108-3 106-5 104-6 102-0 100 110 110 120 130 14u 200 107-6 109-1 112-7 112-1 110-7 108-3 106-5 104-6 102-0 101-0 99-3 97-6 96-8 96-1 93-0 101-0 106-0 110-9 105-4 107-0 107-4 106-0 108-2 102-3 100-5 100-5 106-0 | | IECD I | 10 I SE | | | | ROUND | RUNUP | (SUPPR | ESSED) | ō ; | ELT | ENT. | - 26 | × | |) 28 NOV | 2 2 | | |
| 105.3 106.6 118.3 119.6 118.4 116.6 118.5 118.6 110.6 1111.0 99.3 97.6 96.8 96.3 96.1 118.3 119.6 118.4 118.2 118. | DIST (FE | • | 97 | 20 | 8 | 3 | 50 | 69 | 2 | ANGLE 80 | 5 | 100 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 160 |
| 115.3 116.8 118.3 118.6 118.4 116.8 118.7 118.3 118.5 98.6 97.6 95.7 94.7 94.1 93.4 118.3 118.6 118.3 118.6 118.3 118.5 118.6 118.3 118.6 118.3 118.6 118.3 118.6 118.3 118.6 118.3 118.6 118.3 118.5 | | 107.6 | 109.1 | 112.7 | 112,1 | ~ | | 10 | | 60 | 01. | 99.3 | 97.6 | 96.8 | 96.3 | 96.1 | 96.5 | 95.3 | 94.8 | 94.9 |
| 101-6 101-9 105-4 105-0 103-6 101-2 99-4 97-5 95-7 94-0 99-2-2 90-6 90-1 69-2 69-1 99-6 99-1 99-6 101-0 102-0 102-4 101-0 90-6 90-6 99-1 93-2 91-4 69-7 60-0 07-7 66-7 66-7 66-7 90-6 99-4 102-0 102-4 101-0 99-6 99-1 92-3 90-5 90-5 90-5 90-5 90-5 90-6 90-1 69-7 66-7 66-7 66-7 66-7 66-7 66-7 66-7 | | 105.3 | 106.8 | 110.3 | 109.8 | 40 | | ~ « | m - | 29.0 | 98.8 | 97.0 | | 94.7 | 94.1 | 93.8 | 94.2 | 93.0 | 92.5 | 92.6 |
| 96.1 99.4 102.6 102.4 101.6 98.6 96.6 95.0 93.2 91.4 89.7 66.0 07.7 66.0 07.7 66.7 66.5 95.9 94.1 92.3 90.5 07.7 66.0 67.1 65.4 65.1 64.0 63.6 95.6 100.0 99.6 96.2 95.9 94.1 92.3 90.5 07.7 66.0 64.3 62.7 62.5 61.2 60.9 92.6 93.8 97.2 96.7 95.3 93.1 91.3 69.5 67.7 66.0 64.3 62.7 62.5 61.2 60.9 66.5 67.8 90.9 94.2 93.7 92.3 90.1 66.5 64.7 63.0 01.3 79.9 79.6 76.3 76.9 66.5 67.8 66.5 67.8 66.5 67.8 67.8 77.3 77.3 77.3 77.3 77.3 77.3 77.3 7 | | 100.6 | 101.9 | 105.4 | 105.0 | | | ٠. | | 95.7 | 96.0 | 92.2 | | 98.1 | 89.2 | 69.0 | 89.4 | 86.2 | 87.7 | 67.9 |
| 95.4 96.6 180.8 99.6 98.2 95.9 94.1 92.3 90.5 86.8 87.1 85.4 85.1 84.8 85.1 84.8 83.8 92.6 93.8 97.2 96.7 95.3 93.1 91.3 89.5 87.7 86.8 87.1 85.4 85.1 82.7 82.8 81.2 88.9 86.9 84.2 93.7 92.3 98.1 86.3 86.5 84.7 83.0 81.3 79.9 79.6 76.3 76.9 86.9 86.5 87.8 87.8 73.3 72.2 71.7 86.5 87.5 87.8 73.3 72.8 73.3 72.2 71.7 76.5 87.8 87.1 77.3 76.9 76.1 75.3 76.9 76.7 75.3 77.9 80.2 81.6 77.1 80.1 80.8 70.8 70.8 70.8 70.8 70.8 70.8 70.8 | | 98.1 | 99.4 | 102.8 | 102.4 | • | | 70 | _ | 93.2 | 91.4 | 89.7 | | 87.7 | 86.7 | 86.5 | 86.8 | 85.6 | 85.2 | 65.4 |
| 89.6 910.9 94.2 93.7 92.3 98.1 88.3 86.5 84.7 83.0 81.3 79.9 79.0 76.3 78.8 86.5 87.8 87.8 87.8 87.8 97.8 75.3 77.9 79.0 76.7 75.3 77.9 86.5 87.8 87.8 87.8 87.8 87.8 87.8 87.8 87 | | 95.4 | 96.6 | 100. | 9 6 | N M | | _ × | - | 90.5 | 8 6 6 | 87.1 | | 85.1 | 84.0 | 83.8 | 84.2 | 82.9 | 82.4 79.6 | 82.7 |
| 89.6 99.9 94.2 93.7 92.3 98.1 88.3 84.5 64.7 83.0 81.3 79.9 79.0 78.3 78.9 85.3 78.9 88.3 78.9 88.3 78.9 88.3 78.9 78.3 78.9 78.3 78.9 78.3 78.9 88.3 88.3 88.3 88.5 88.5 88.5 88.5 88.5 | | | | ; | | • | | | | ; | | | | | | | | | | |
| 86.5 0.0 8 90.9 90.5 89.3 86.8 85.1 83.3 81.5 79.6 70.3 76.9 76.7 75.3 74.9 83.3 81.5 81.5 81.5 81.5 81.5 81.5 81.5 81.5 | 1000 | 89.6 | 90.9 | | 93 | | 96.1 | 88.3 | 86.5 | 84.7 | 83.0 | 81.3 | 6.62 | 19.8 | 78.3 | 78.1 | 78.3 | 76.9 | 76.6 | 76. |
| 60.2 64.0 84.0 83.8 82.6 88.1 78.4 75.7 75.1 73.5 72.0 71.5 69.6 68.9 68.4 76.5 77.1 88.1 88.1 88.2 82.6 88.1 78.4 75.7 75.1 73.5 72.0 71.5 69.6 68.9 68.4 72.7 73.1 73.6 72.0 71.5 69.6 69.9 65.3 64.6 67.7 73.1 73.6 72.0 71.8 69.2 67.4 65.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 64.8 62.3 64.7 69.8 64.7 62.9 67.1 62.9 65.1 64.8 64.7 65.1 66.8 63.7 66.1 57.6 64.8 64.7 65.1 67.8 64.8 64.8 64.8 64.8 64.8 64.8 64.8 64 | 1250 | | 87.8 | | 90. | 6 4 6 4 | 86.8 8 4 | 85.1 | 93.0 | 81.5 78.3 | 79.8 | 78.3 | 76.9 | 76.7 | 75.3 | 6.47 | 75.4 | 73.9 | 73.3 | 73.6 |
| 76.5 77.1 88.1 75.8 76.1 75.8 77.8 73.1 71.3 69.7 68.1 66.6 65.9 65.3 64.6 68.3 72.7 73.1 75.8 75.1 75.8 72.8 71.8 69.2 67.4 65.7 64.8 62.3 61.7 61.8 68.6 65.8 65.7 64.8 62.3 61.7 61.8 68.6 69.3 62.3 61.7 61.8 68.6 63.7 65.1 66.1 55.6 63.7 64.8 62.3 61.7 57.6 57.6 61.1 57.6 57.8 62.1 55.6 63.4 61.2 71.7 71.6 68.3 67.4 54.2 57.4 56.1 57.6 57.4 57.5 57.4 57.4 57.4 57.4 57.4 57.4 | 2000 | 80.2 | 81.0 | | | 82,6 | 00.1 | 4 9 4 | 76.7 | 75.1 | 73.5 | 72.0 | 70.5 | 9.69 | 6.09 | 68.4 | 69.9 | 67.4 | 66.1 | 99 |
| 72.7 73.1 75.6 76.1 75.6 72.6 71.0 69.2 67.4 65.7 64.8 62.3 61.7 61.0 68.6 63.4 63.4 71.2 71.7 71.6 68.3 66.5 64.7 62.9 61.1 59.3 57.6 56.7 56.1 55.6 53.4 63.7 71.6 68.3 66.5 64.7 62.9 61.1 59.3 57.6 56.7 56.1 55.6 53.4 63.7 66.1 67.8 65.8 63.4 61.7 59.8 57.9 56.1 54.2 52.4 51.4 50.7 56.1 55.6 56.2 56.4 60.8 61.9 60.6 56.3 56.4 54.5 57.9 56.1 54.5 57.8 56.4 60.8 61.9 60.6 56.3 56.4 57.9 57.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 | 25.00 | 76.5 | 77.1 | | 80. | 78.8 | 76.5 | 74.8 | 73.1 | 71.3 | 69.7 | 68.1 | 9 - 99 | 62.6 | 65.3 | 9.49 | 65.2 | 63.5 | 62.2 | 62.1 |
| 68.3 69.6 71.2 71.2 71.7 70.6 68.3 66.5 64.7 62.9 61.1 59.3 57.6 56.7 56.1 55.6 63.4 63.7 56.3 65.4 61.7 59.8 67.9 56.1 54.2 52.4 51.4 50.7 50.4 63.4 63.7 56.8 63.4 61.7 59.8 57.9 56.1 54.2 52.4 51.4 50.7 50.4 56.2 56.2 56.4 60.8 61.9 60.6 58.3 56.4 54.5 52.6 50.7 40.6 44.5 45.4 44.9 44.5 53.9 54.0 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 56.3 57.4 57.7 45.7 45.7 45.7 43.5 41.2 40.7 39.3 39.0 45.9 49.8 51.2 52.3 51.3 40.9 46.8 44.6 42.2 40.1 37.4 35.3 34.7 33.1 32.0 45.9 45.8 45.8 45.8 45.8 45.8 45.8 45.8 45.8 | 3150 | 72.7 | 73.1 | | 3 6 | 75.0 | 72.8 | 71.8 | 69.2 | 67.4 | 65.7 | 64.8 | 62, 3 | 61.7 | 61.0 | 9.19 | 61.1 | 59.3 | 57.8 | 57.3 |
| 56.2 56.4 60.6 61.9 60.6 56.3 56.4 54.5 52.6 50.7 40.6 64.5 45.4 44.9 44.5 56.2 56.4 60.6 61.9 60.6 56.3 56.4 54.5 52.6 50.7 40.6 64.6 45.5 45.4 44.9 44.5 53.9 55.9 54.0 56.3 57.4 56.3 57.9 57.0 49.9 47.7 45.7 45.7 45.5 41.2 40.7 39.3 39.0 46.9 49.9 47.7 45.7 45.7 45.5 41.2 40.7 39.3 39.0 40.7 39.3 39.0 40.8 45.8 45.8 45.8 45.8 45.8 45.8 45.8 45 | | 68° 3 | 68.6 | | į: | 70.6 | 68. | 66.5 | 64.7 | 62.9 | 61.1 | 59.3 | 57.6 | 56.7 | 56.1 | 55.6 | 56.4 | 54.5 | 52.7 | 21.0 |
| 53.9 54.0 56.3 57.4 56.3 53.9 52.0 49.9 47.7 45.7 45.7 41.2 40.7 39.3 39.0 48.9 49.9 47.7 45.7 45.7 45.7 5.3 34.7 39.3 39.0 48.9 49.9 51.2 52.3 51.3 48.9 40.0 44.6 42.2 40.1 37.4 35.3 34.7 33.1 32.0 42.9 43.0 43.0 43.6 45.6 45.9 48.7 38.3 35.6 33.4 30.9 28.9 28.9 28.9 28.8 28.4 28.9 28.9 28.9 28.9 28.9 28.4 28.9 28.9 28.9 28.9 28.9 28.9 28.4 28.9 28.9 28.9 28.9 28.9 28.9 28.9 28.9 | | 5 C | 58.4 | 60°1 | • | 60,0 | 2 P. C. | 56.4 | 7 Y C | 50.5 | 50.7 | 7 * ° ¢ | 20° | 71.4 | 70.7 | 700 | 51.0 45.4 | 0 . 1 . 1 . | F 4 | |
| \$6.9 \$9.6 \$1.2 \$5.3 \$1.3 \$6.9 \$6.8 \$\$\$6 \$2.2 \$\$0.1 \$7.\$ \$5.3 \$\$\$7 \$35.1 \$2.0 \$\$2.9 \$\$3.0 \$35.3 \$\$\$7 \$35.1 \$2.0 \$\$2.9 \$\$3.0 \$35 | 0000 | 53.9 | | 56.3 | • | | 53.9 | 52.0 | | 47.7 | 45.7 | 43.5 | 41.2 | 40.7 | 39.3 | 39.6 | 39.6 | 36.9 | 33.7 | 32. |
| 42.9 43.0 45.6 46.6 45.5 42.9 40.7 30.3 35.6 33.4 30.9 20.9 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 | | 4 1 | 40.4 | £4.2 | | | 9 | 4 | 4 | c | 4 | 17.4 | | 26. 7 | | 20 | | 0 | u c | |
| 36.0 35.9 39.8 48.8 38.7 35.6 33.5 31.3 29.8 26.0 22.5 19.6 19.7 16.2 14.4 28.3 28.3 28.4 31.8 32.1 31.8 27.5 24.7 21.8 18.1 15.4 9.4 6.8 11.3 5.7 4.3 17.8 17.7 21.7 21.7 21.4 16.2 13.5 7.4 7.2 4.8 | 12500 | 65.9 | £3.0 | 45.6 | ٤. | | 42.9 | 7.01 | 38.3 | 35.6 | 1 M | 30.9 | | 28.0 | 26.8 | 24.4 | 25.5 | 20.8 | 15.6 | 13.7 |
| 28.3 28.1 31.8 32.1 31.8 27.5 24.7 21.8 18.1 15.4 9.4 6.8 11.3 5.7 4.3 17.8 17.7 21.7 21.7 21.4 16.2 13.5 7.4 7.2 4.8 | 16000 | 36.0 | 35.9 | 39.8 | 4 | 38, 7 | 35.6 | 33.5 | 31.3 | 29.0 | 26.0 | 22.5 | 19.6 | 19.7 | 16.2 | 14.4 | 14.5 | 9.5 | 5.4 | 3 |
| 17.8 17.7 21.7 21.1 21.4 16.2 13.5 7.4 7.2 4.8 | 00002 | 26.3 | 28.1 | 31.8 | å | | 27.5 | 24.7 | 21.8 | 18.1 | 15.4 | 9.6 | 6.8 | 11.3 | 2.5 | F. 3 | 3.5 | | | |
| | 25090 | 17.8 | 17.7 | 21.7 | 4 | 21.4 | 16.2 | 13.5 | 7.4 | 7.2 | ** | | | 5.9 | | | | | | |

| TABLES | 10ME-(| TONE-CORRECTED, | |) <u>~</u> . | VED NOISE | LEVE | Z z | 080 | | | | | | | | IDENTI(| DENTIFICATIONS ONEGA 6.2 | NOI | |
|------------------------------|---|------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------------------|----------------------|------------------------------|--|--|----------------------|------------------------------|-----------------------------|----------------------|---------------------------------------|-----------------------------|---------------------|----------------------------------|
| NOISE SOU F-15 AF32A | 2 I DE TH | SUBJECT 8 SUPPRESS NOISE | 5 | | | ERATIONS MILITARY SINGLE EI GROUND RI | N N N N N N N N N N N N N N N N N N N | R (91% RPH) | RPH) ESSED) | NE NE | ETECROLOGY TEMP BAR PRE REL HUM | PRESS HUMID | = 59 = 29.92 = 70 | E E E | | AINCRAFT OPERATION PROFILE 126 NOV 75 | - 4 | 202 | ME 761) ME 86284) MA A B |
| (DISTANCE 10 10 | | 97 | 50 | eg S | 9 | 20 | 09 | 9. | ANGLE | 0.0EG | REES) | 813 | 128 | 130 | 141 | 150 | 168 | 17.0 | 188 |
| 250 | 187.6 | 109.6 | 112.7 | 112. 103. | | | In (4) | 9 19 9 | 60 IO 0 | 98.89 | 99.3 | | 0 N : | | | w w c | M 1 | | 94.9 |
| | | 162.5 99.9 | 185. | 192 | | 98.6 | 99.96 | 97.00 | 93.7 | 94.0 | 92.2 | | 90.1 87.7 | . ~ ~ = | 96.9 | | 92.0 | 87.7 | 87.9 85.4 7.7 |
| | 92.6 | ** | | 96 | 9.00 | | 91.3 | 200 | 87.7 | 86.0 | 96.31 | 82.7 | 92.5 | 81.2 | | 4 60 | | | 79.9 |
| 1256 | 89.00 86.00 86.00 | 91.5 | 94.2 | | 92.3 | 98.1 86.8 | 88.3 85.1 | 86.5 | 84.7 81.5 | 63.0 79.8 | 78.3 | 79.9 76.9 | 0 N M | 76.3 | 76.9 | m d a | 0 O N | | 76.6) 73.6) 78.8) |
| 2500 | 80.2 | | | 8 6 8 6 | 82.6 78.8 | 60.1 76.5 | 70.4 | 76.7 | 75.1 | 73.5 | 72.0 | 78.5 | • • • | | | . 6 0 | | | 66.3) |
| 3150 | 72.7 | | 75. | 75. | 75.0 | 72.8 | 71.0 | 69.2 | 67.4 62.9 | 65.7 61.1 | | 62.3 57.6 | ~ ~ | 61.0 56.1 | و و | | P2 160 1 | 52.7 | 57.3) |
| 9000 9000 9000 9000 | 63. 53. 4.00. | | | 67. 61. 57. | 7 6 6 8 8 8 8 | 9 9 9 9 9 9 9 | 61.7 56.4 52.0 | 56.0 56.0 60.0 | 57.9 52.6 47.7 | 56.1 58.7 45.7 | 56.2 50.6 53.5 53.5 | 52.4 46.5 41.2 | 51.4 45.4 48.7 | | 50.4 44.5 39.0 | 51.4 45.4 39.8 | 40.0 40.0 36.9 | | 45.5 38.6 32.3 |
| 12590 | 4 6 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 | 49.8 43.0 35.9 28.1 | 51.2 45.6 39.8 31.0 | 52.3 46.6 32.0 4.12 | 54.00 3.00 3.00 4.00 4.00 4.00 4.00 4.00 | 48.9 42.9 35.6 27.5 | 46.8 33.5 24.7 | 21.6 21.6 7.6 | 42.2 35.6 29.0 18.1 | 1234 1264 1564 1664 1664 1664 1664 1664 1664 16 | 37.4 30.9 22.5 9.4 | 35.3 26.9 19.6 | 34.7 28.0 19.7 11.3 | 33.1 26.6 16.2 5.7 | 32.0 | 233.1 25.5 3.5 3.5 | 29.9 20.8 9.2 | 25.0 19.6 5.4 | 23.3 13.7 4.1) |
| | | | | | | | | | | | | | | | 1 | | | 1 | |

| NOISE SOURCE/SUBJECT: F-15 IN THE AF32A-23 SUPPRESSOR FAR-FIELD NOISE | ٠ [| | | | AND DISTANCE | | | | | | | | | | | RUN | | | |
|---|-------------------------------------|---|--------------|-------------------|--------------|--------------|--------------|--------------------------------|--------------|--------------|--|----------------|------------------|-------|------|--------|---|------|---------------------------|
| | CE/SUB N THE 23 SUF ELD NO | SOURCE/SUBJECTS SOURCE/SUBJECTS SOURCE/SUBJECTS STALZ3 SUPPRESS R-FIELD NOISE | 5 ! | | O E E E | 1 2 | POWE | ER (91% RPM) E (SUPPRESSED) | RPM) | 3 0 | ETECROLOGY TEMP BAR PRE REL HUM | PRESS HUMID | #29.92 #29.92 | F N K | | PROFES | RUN 93 AIRCRAFT CO OPERATION CO PROFILE VERS 28 NOV 79 PAGE F3 | 888 | 761) 08264) N A) |
| DISTANCE (FEET) | • | 10 | 50 | 98 | 3 | 50 | 99 | 7.0 | ANGLE 80 | 0. | 134 | 1 9 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| | 93.9 | 94.8 | 98.5 | | 96.9 | 94.4 | 92.5 | 90.6 | 86.8 86.6 | . 3 | 85.3 | 83.7 | 82.9 | 82.1 | 81.9 | | 80.5 | 79.4 | 79.3 |
| 315 | 89.6 | 90.4 | 93.9 | | 92,5 | 90.0 | 88.1 | 86.3 | 40.0 | 20 | 81.0 | 79.4 | 78.7 | 77.9 | 77.7 | | 76.3 | 75.1 | 75.0 |
| | 85.1 | 85.6 | 89.2 | 89.5 | 8 8 9 9 9 | 83.4 | 83.6 | 81.8 | 80.0 | 78.3 | 76.6 | 75.0 | 74.4 | 73.4 | 73.2 | 73.5 | 71.9 | 78.6 | 70.6 |
| | 90.4 | 81.0 | 84.2 | | 6 3, 2 | 80.7 | 78.8 | 77.0 | 75.3 | m | | 70.3 | 69.7 | 68.7 | 68.5 | | 67.1 | 65.8 | 65.6 |
| 1250 | 77.9 | 78.5 | 81.6 78.9 | 82.2 79.6 | 7 80.7 | 78.2 | 76.4 | 74.6 | 72.8 | 71.1 | 69.5 | 67.9 | 67.3 | 65.3 | 66.1 | 65.4 | 64.6 | 63.2 | 63.0 |
| | 72.8 | 73.2 | 76.1 | 76.9 | 75.5 | 73.0 | 71.2 | 4.69 | 67.6 | 65.9 | 64.2 | 62.6 | 61.9 | 61.1 | 60.0 | | 59.3 | 57.7 | 57.2 |
| | 67.2 | 67.4 | 70.2 | 71.2 | 3 6 | 67.3 | 65.5 | 63.7 | 61.9 | 60.2 | 58.5 | 56.8 | 55.9 | 55.3 | 22.0 | | 53.5 | 51.6 | 50.0 |
| 3150 | 64.0 60.4 | 64.2 50.5 | 66.9 63.2 | 6. 4. 5. co | 66°7 63°1 | 64.1 60.6 | 62.3 58.7 | 60.5 56.9 | 58.7 | 56.9 53.3 | 55.2 51.5 | 53°59 | 52.5 | 52.1 | 51.7 | 52°3 | 58.3 | 40.2 | 43.3 |
| | 56.3 | 56.5 | 59.1 | 60.6 | 6 4 | 56.5 | 54.7 | 52,9 | 51.0 | £ 9.3 | 6.7.5 | 45.7 | 46.7 | 4.0 | 44.1 | | 42.8 | 40.5 | 39.1 |
| | 49.0 | 19.0 | 50.5 | 52.1 | 50.0 | 48.2 | 40.4 | 44.6 | 42.8 | 41.0 | 39.2 | 37.5 | 36.5 | 36.2 | 35.9 | 36.7 | 34.5 | 32.2 | 30.8 |
| | 43.7 | 43.7 | 46.1 | 47.6 | 40.4 | 43.9 | 42.1 | 40.3 | 38.5 | 36.8 | 35.0 | | 32.4 | 32.0 | 31.7 | 32,3 | 30.3 | 28.0 | 26.7 |
| | 34.0 | 30°00 30°00 30°00 | 41.2 35.9 | 37.1 | 41. 36.3 | 39.1 33.9 | 37.3 | 35.6 30.4 | 33.8 28.7 | 32.1 | 30.4 25.4 | | 27.9 | 27.5 | 27.0 | 27.6 | 25.6 20.6 | 16.7 | 22.5 |
| | 28.3 | 28.1 | 30.1 | 31.0 24.3 | 30.4 | 28.1 | 26.4 | 24.7 | 23.1 | 21.6 | 20.02 | 18.5 | 18.1 | 17.2 | 16.7 | 16.9 | 15.3 | 13.8 | 13.8 |
| | | | |) ! |) : | | ! | • | | | } } | | | | | | | ? | |

| SUNCE/SUBLECTI REFIELD NOISE (RILITATE FORE | | | TONE-CORREGTED, A-WEIT AS A FUNCTION OF ANGL | TED, A- | -WEIGHT | GHTED OVE E AND DIS | DISTANCE | SOUND LEVEL FROM SOURC | w | (DBA) | | | | | ! | | OMEGA OMEGA OTEST | DENTIFICATIONS OMEGA 8.2 TEST 79-761-00 | 6.2 79-761-001 | | |
|--|----------------------------|---|---|---------|----------|------------------------|--------------------------|------------------------------|---------|----------|------|--|----------------|---------------|-------|---------|---|---|-------------------|---------------------|-----|
| 9.10 | NOISE SC PF 1: PA 3: | OURCE/S 5 IN TH 2A-23 S -FIELD | SUBJECT TE SUPPRES NOISE | SOR | | 0 3 4 5 8 | TION: ILITAR INGLE | Y POWER ENGINE RUNUP (| R (91X | RPH) | • | ETEOROI TEM BAR BAR ELTA N | | 2.9.9 1.08 | F HX | | P N D D N D | BS RAFI RATION FILE VE 10V 79 | CODE | 761 80204 1 A | |
| 93.9 95.4 96.5 96.2 96.3 94.6 92.2 91.6 60.6 64.9 63.2 63.7 82.9 62.1 81.9 62.2 81.5 77.9 97.7 93.2 95.3 94.6 95.2 91.3 60.4 65.6 84.9 93.2 91.5 91.5 91.5 91.5 91.5 91.5 91.5 91.5 | (DISTANCI | • | 97 | 20 | 8 | 3 | 56 | 69 | 202 | ANGLE | - 0. | REES) | 11.0 | 120 | 130 | 140 | 158 | 160 | 170 | 2 | ; |
| 91.7 93.2 96.2 96.3 96.6 92.2 91.3 68.4 86.6 86.9 03.2 01.5 10.6 17.9 170.8 17 | 1 200 | 93.5 | | | 96 | | 94.4 | 92.5 | 90.6 | 86.6 | 87.0 | 85.3 | 83.7 | 82.9 | 82.1 | 81.9 | 82.2 | 80.5 | 79.4 | 79.3 | _ |
| 9.5 91.0 91.5 91.6 91.5 91.9 91.0 91.0 91.0 91.0 91.0 91.0 91.0 | 250 | 91. | | | 3 | | 92.2 | 90.3 | 4.88 | 96.6 | 84.9 | 83.2 | 61.5 | 80.8 | 80.0 | 79.8 | 190 | 78.4 | 77.2 | 77.2 | |
| 85.1 86.4 89.2 89.9 88.0 85.4 83.6 81.0 81.0 77.0 75.9 74.3 75.7 72.1 71.1 78.9 73.2 73.5 74.9 78.6 82.7 84.6 85.2 85.6 83.1 81.2 79.4 77.6 75.9 74.3 72.7 72.1 71.1 78.9 73.2 69.5 68.6 88.2 88.2 88.2 88.2 88.2 88.2 88.2 | | 67. | | | . 6 | | 87.7 | 85.9 | 7 G 4 G | 2 ° 5 | 80.5 | 78.8 | 77.2 | 76.6 | 75.7 | 75.5 | 75.7 | 74.1 | 72.9 | 72.8 | |
| 82.7 84.8 84.6 84.2 84.7 83.2 88.1 81.2 79.4 77.6 75.9 74.3 72.1 71.1 78.9 71.2 69.5 68.8 67.1 69.8 88.8 71.2 84.8 81.6 81.6 84.2 84.7 83.2 88.7 78.8 77.1 75.9 71.1 78.9 77.1 69.7 68.7 68.7 68.7 68.7 68.5 68.8 67.1 65.8 87.1 69.8 81.8 77.8 75.4 77.8 75.4 76.4 76.5 72.8 73.8 72.8 72.8 73.8 72.8 72.8 72.8 72.8 72.8 72.8 72.8 72 | 200 | 85.1 | | | 8 | | 85.4 | 83.6 | 01.0 | 30.0 | 76.3 | 76.6 | 75.0 | 74.4 | 73.4 | 73.2 | 73.5 | 71.9 | 71.6 | 70.6 | _ |
| 77.9 79.1 81.6 82.2 88.7 78.2 75.6 72.8 71.1 89.5 67.9 67.3 66.3 66.1 66.4 64.6 63.2 75.4 75.4 75.4 75.4 75.5 73.8 72.8 71.2 68.6 66.9 65.3 64.6 63.7 63.5 63.8 62.8 68.9 72.8 73.8 73.8 73.8 73.8 73.8 73.8 73.8 73 | 630 | 82.1 | | | 67. | | 83.1 | 81.2 | 79.4 | 77.6 | 75.9 | | 72.7 | 72.1 | 71.1 | 78.9 | 71.2 | 69.5 | 68.2 | 68.1 | _ |
| 77.9 79.1 81.6 82.2 88.7 78.2 76.4 72.8 71.1 69.5 67.9 67.3 66.3 66.1 66.4 64.6 63.7 78.8 75.8 75.8 72.8 72.8 72.8 72.8 72.8 72.8 72.8 72 | | 90 | | į | | | 91./ | 78.8 | | 75.3 | 73.6 | | 70.3 | 2.69 | 68.7 | 66.5 | | 67.1 | 65.6 | 65.6 | |
| 75.4 76.4 76.4 76.4 76.4 76.4 76.4 76.4 76.4 76.4 76.4 76.4 76.6 66.9 65.9 64.2 66.6 61.2 61.6 <th< td=""><td>1000</td><td>77.9</td><td></td><td>81.</td><td>82.</td><td>1.00</td><td>78.2</td><td>76.4</td><td>74.6</td><td>72.8</td><td>71.1</td><td>69.5</td><td>67.9</td><td>67.3</td><td>66.3</td><td>66.1</td><td>4 • 99</td><td>64.6</td><td>63.2</td><td>63.0</td><td>_</td></th<> | 1000 | 77.9 | | 81. | 82. | 1.00 | 78.2 | 76.4 | 74.6 | 72.8 | 71.1 | 69.5 | 67.9 | 67.3 | 66.3 | 66.1 | 4 • 99 | 64.6 | 63.2 | 63.0 | _ |
| 72.6 73.8 76.1 76.9 75.5 73.0 71.2 69.4 67.6 65.9 64.2 62.6 61.9 61.1 60.0 61.2 59.3 57.7 70.1 71.8 73.3 74.1 72.6 710.2 69.4 65.6 64.9 63.2 61.5 59.9 59.9 59.8 56.8 56.4 56.5 54.7 70.1 72.6 710.2 69.4 65.6 64.9 65.2 61.5 59.9 59.9 59.8 56.8 56.4 56.5 54.7 61.9 67.2 69.6 67.3 67.2 69.6 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67 | 1250 | 75.4 | | 78. | • | | 75.6 | 73.8 | 72.0 | 70.2 | 68.6 | 6 • 99 | 65, 3 | 9.49 | 63.7 | 63.5 | 63.8 | 62.8 | 61.5 | 69.2 | _ |
| 70.1 71.8 73.3 74.1 72.6 710.2 58.4 56.6 54.9 53.2 51.5 59.9 59.8 56.8 56.8 56.8 56.4 56.5 54.7 51.2 51.6 57.2 51.5 51.5 51.5 51.5 51.5 51.5 51.5 51 | 1600 | 72.1 | | 76. | _ | ŝ | 73.0 | 71.2 | 69.4 | 67.6 | 69.6 | 2.49 | 62.6 | 61.9 | 61.1 | 60.8 | 61.2 | 59.3 | 57.7 | 57.2 | _ |
| 67.2 60.0 70.2 71.2 69.6 67.3 65.5 63.7 61.9 60.2 50.8 55.9 55.9 55.0 55.5 53.5 51.6 64.0 65.7 66.1 62.3 60.2 50.7 55.9 55.2 53.5 52.1 51.7 52.3 50.3 50.8 66.0 66.7 66.9 66.7 66.1 62.3 60.2 55.1 55.2 53.5 52.5 52.1 51.7 52.3 50.3 66.0 65.0 66.0 66.0 66.7 66.0 66.0 66.0 66.0 66 | 2000 | 70. | | 73 | _ | å | 70.2 | 68.4 | 9.99 | 64.9 | 63.2 | | 59.9 | 59.0 | 56.3 | 56.9 | 50.4 | 56.5 | 24.7 | 54.1 | _ |
| 66.4 66.4 66.9 66.0 66.7 66.1 52.3 68.5 58.7 55.9 55.2 53.5 52.5 52.5 52.1 51.7 52.3 56.3 46.2 66.5 66.5 63.1 66.6 56.7 56.9 55.1 51.5 49.8 46.1 46.8 46.1 46.8 46.1 46.8 65.7 44.5 65.9 55.3 56.8 59.4 66.5 59.1 56.5 54.7 52.9 51.0 49.3 47.5 45.7 44.5 46.4 44.1 44.9 46.1 44.9 46.1 46.8 46.1 46.8 46.2 46.2 56.3 56.2 56.4 46.6 46.5 46.5 47.1 41.4 48.3 48.0 39.8 48.6 36.2 36.3 36.2 36.3 36.2 36.3 36.2 36.3 36.3 | 2500 | 29 | | 2 | • | å | 67.3 | 65.5 | 63.7 | 61.9 | 60.2 | | 56.8 | 55.9 | 55.3 | 55.0 | 55.5 | 53.5 | 51.6 | 59.6 | _ |
| 50.0 5 50.0 50.1 50.5 50.1 50.0 50.1 50.0 50.1 50.5 51.5 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60 | 3120 | * | | 99 | _ | 66.7 | 7 · | 62.3 | 68.5 | 58. | 56.9 | | | 52.5 | 52.1 | 51.7 | 52.3 | 20.3 | 48.2 | 47.2 | |
| 51.9 52.3 54.7 56.3 54.6 52.2 51.4 46.6 46.7 44.9 43.1 41.4 48.3 36.2 35.9 36.7 34.5 35.2 46.6 36.8 36.2 35.3 36.2 35.3 36.2 46.6 46.4 44.6 42.6 41.0 39.2 37.5 36.5 36.2 35.9 36.7 34.5 32.2 43.7 43.7 45.1 47.6 46.4 43.9 42.1 40.3 38.5 32.1 31.4 28.8 27.9 27.9 27.9 27.5 27.0 27.5 28.8 39.1 39.8 41.2 42.6 41.6 39.1 37.3 35.6 33.8 32.4 28.8 27.9 27.9 27.9 27.9 27.6 28.6 28.8 34.8 33.8 35.9 37.1 36.2 38.9 32.1 31.4 28.4 28.7 27.1 28.4 28.6 28.8 27.9 27.9 27.9 27.9 27.6 28.4 28.6 18.7 28.3 28.4 28.8 28.3 28.4 28.1 26.4 28.7 27.1 28.4 28.6 28.8 18.4 17.2 18.7 16.9 18.7 18.8 38.4 28.3 28.4 28.7 28.1 18.6 14.2 12.9 12.8 11.6 11.2 11.2 11.2 11.1 9.2 | | 9 | | | • | åd | 00.00 E. F. F. | 700 / | 200 | - c | 200 | | # 4. 0 4. 0 | 9 0 0 | • • | 7 | 0 1 | | | ? | |
| 48.8 48.2 58.5 52.1 59.6 48.2 46.4 44.6 42.8 41.0 39.2 37.5 36.2 36.2 35.9 36.7 34.5 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32 | 6300 | 510 | | | 96 | | 52.2 | 50.4 | 48.6 | , | 7 | | 4 | M 4 | 9 | 8 | 6.6 | 38.5 | 36.2 | 34.6 | . – |
| 43.7 43.7 46.1 47.6 46.4 43.9 42.1 40.3 38.5 36.8 35.8 32.8 32.4 32.8 31.7 32.3 30.3 20.8 39.1 39.8 41.2 42.6 51.6 59.1 37.3 35.6 33.8 32.1 31.4 20.8 27.9 27.5 27.0 27.6 25.6 23.5 34.8 33.8 35.9 37.1 36.3 33.9 32.1 38.4 28.7 27.1 25.4 23.6 23.1 22.5 22.0 22.4 28.6 18.7 28.3 28.3 28.1 38.1 31.8 30.4 28.1 26.4 24.7 23.1 21.6 28.8 18.5 18.1 17.2 16.7 16.9 15.3 13.8 22.1 21.9 23.8 24.3 28.5 24.0 21.7 20.1 18.6 17.1 15.6 14.2 12.9 12.8 11.6 11.2 11.2 11.2 10.1 9.2 | 9008 | +0. | _ | | 52 | | 48.2 | | 44.6 | . • | 41.0 | 39.5 | 37.5 | 36.5 | 36.2 | 35.9 | 36.7 | 34.5 | 32.2 | 30.6 | _ |
| 43.6 43.6 45.1 46.2 45.6 41.6 39.1 37.3 38.5 35.6 35.8 35.8 35.4 32.8 31.7 32.3 30.3 20.8 35.1 30.4 20.8 35.1 31.7 32.3 30.3 20.8 39.1 39.1 41.2 42.6 41.6 39.1 37.3 35.6 33.8 32.1 30.4 20.8 27.9 27.9 27.6 27.6 27.6 27.6 27.6 27.5 37.9 37.1 36.8 37.1 37.3 37.3 38.4 28.7 27.1 27.4 27.6 27.8 27.1 27.8 27.0 27.4 20.6 18.7 20.1 38.1 31.8 30.4 20.1 26.4 24.7 27.1 27.6 20.8 10.5 10.1 17.2 16.7 16.9 15.3 13.8 22.1 21.9 23.8 24.3 24.0 21.7 20.1 10.6 17.1 15.6 14.2 12.9 12.8 11.6 11.2 11.2 10.1 9.2 | | | | | , | , | | , | | ; | ; | | | ; | ; | i | | • | • | 1 | |
| 23.1 53.8 41.6 72.8 41.0 53.1 37.3 53.0 53.0 52.1 58.4 28.0 27.1 27.3 27.9 27.8 27.8 27.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 5 | | 9 6 | | | 2 | | 600 | 45.1 .7 | 700 | 38.5 | 36.8 | 32.0 | 33, | 32.4 | 32.0 | 31.7 | | 30.0 | 28.8 | 7.92 | |
| 24.0 33.0 37.7 37.1 30.0 33.7 32.1 38.4 60.7 67.1 62.4 63.0 63.1 66.9 66.9 66.4 68.0 10.7 66.9 66.7 10.7 66.3 68.3 68.3 68.3 68.3 68.3 68.3 68.3 | 16000 | | | | į | | 1 6 | ? | 0 - | 9 9 | 36.1 | *** | • | 6.7 | | 9.72 | | 22.0 | 200 | 600 | |
| 22-1 21-9 23-6 24-3 24-0 21-7 20-1 10-6 17-1 15-6 14-2 12-9 12-8 11-6 11-2 11-2 10-1 9-2 | | 2 | | | | | | 7 90 | 26.46 | 7 6 7 6 | 10/7 | 100 | 63.0 | 7007 | 66.77 | 1 2 2 7 | | 0.07 | 7007 | 1001 | |
| 100 1001 1011 Date Date Case No. 1011 Date Case Case Case Case Case Case Case Cas | 25000 | 22.4 | | | | | 24.7 | 20.1 | 18.5 | 4 7 . 1 | 45.6 | | 100 | 100 | 71.1 | 1007 | | 7 - 7 | 0 | 200 | |
| | } | | | | | , | • | • | | | 200 | | 46.7 | 75.0 | | 711 | | 1 | 7. C | • | _ |

| 10 | DISTANCE = | = 250 FEET | | | | | | | | | ONEGA | ONEGA 8.2 TEST 79-761-801 | _ |
|------------------------|--|--------------|--------|---|---|---------|-------------------------------|---------------------------------------|---------------|-----|---------------------------|---|----------|
| | | | | | | | ********** | | | | RUN | B3 | |
| NOISE SOURC F-15 IN | SOURCE/SUBJECT | ECT : | C OPER | OPERATION: MILITARY POW | ER (91% RPH) | Ē | METEOROLOGY 8 TEMP | # ** | 59 F | | AIRCR OPERA | AIRCRAFT CODE | 761 |
| AF 32A-2 FAR-FIE | AF32A-23 SUPPRESSOR FAR-FIELD NOISE | RESSOR SE | | SINGLE ENGINE GROUND RUNUP (SUPPRESSED | E (SUPPRESSED) | ā | BAR PR REL HU DELTA N = | | 92 IN 70 % | 10 | PROFILE 26 NOV PAGE | PROFILE VERSION 26 NOV 79 PAGE J3 | 2 |
| | | | P=PNLT | 11 | | A = A L | | | TEALT | [1 | | | ! ; |
| • | | • | • | • | • | • | • | ٠ | > | • | • | ٠ | |
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| E 70 | • | • (| • (| • | • • | • | • | • × | | a. | • | • | ~ - |
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| Z C | • | • | • | • | • | | • | • | | •. | • | • | _ |
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| E 100 | • | • | • | • | • | • | * | . • | Q . | • | • | • | - |
| A 110 | • • | • • | • • | • • | • • | • • | | • • | 4 | • • | • ; | • | |
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| E 120 | : : | • | • | • • • • • • | • • • • • • | • | . x. | • | | • | • | • | <u> </u> |
| 130 | •• | • • | •• | • • | • • | • • | •× | • • | ٩ | | • • | • • | |
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| 150 | : | • | • | • | • | • | . × | • • | • | • | • | • | |
| 160 | • | • | • | • | • | | •, | • | | • | • | • | |
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| 170 | • | • | • | • | • | • | · • | • | ٥ | | • • | • | |
| 160 | د ر | • | • | | • | | | • | 4 | • | • | • | |
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| TABLE | ₩ > | ν m | D PR FEE | ES SURE T | 3 | L (08) | | | | , | | | | |) IOE | ENTIFI HEGA EST 79 | CATI 8.2 -761 | ON: | |
|--------------------------------|---|-----|-------------|--------------|-------------------------------|--------|--------------|-----------------------------|--------------|----------|------------|------------|----------------|------------|--------------|--------------------------|--------------------------------------|----------------|-----------------|
| SOURC IN T A-23 FIELD | SOURCE/SUBJECT: IN THE A-23 SUPPRESSOR FIELD NOISE | CT1 | | O PER SE | RATIONS FTERBUR INGLE E | NER | . 8‴~ | WER Suppressed) | E0) | | | 1 53 | 59 F 70 X | 9 1 | 2 4 9 4 % | IRCRA Perat Rofil | FT CODI ION CODI E VERSI 79 | DE 0 | 61 0181 A |
| BAND CENTER | | 97 | 20 | 38 | 3 | 56 | 99 | ANG 70 | | DEGRE! | M i | | 08 20 1 | 30 1 | - 9 | 5 7 | 60 1 | 7.0 | 180 |
| (C) | 96 | 95 | 16 | 76 | 76 | 86 | 92 | 91 | 86 | 6 | 40 | 87 | 6 | ~ | 26 | * | 96 | 96 | 8 |
| | 95 | 88 | 96 | 95 | 95 | 96 | 06 | 89 | 88 | 8 | 87 | ص. | 87 | . 60 | . G | 35 | 16 | 3 | 92 |
| 90 | 91 | 95 | | 96 | 93 | 16 | 86 | 68 | 88 | 87 | 87 | 9 | 87 | • | 91 | 93 | 91 | 89 | 90 |
| 100 | 98 | 60 | Ø (| 46 | 8 | 35 | 16 | 8 | 60 | 87 | 96 | ن م | 69 | - دی د | 8 0 (| 36 | 60 | 6 | 6 |
| 125 | 1 6 5 | 3 % | 16 | 2 6 6 | 5 6 | 16 |) () | σ• σ 2 0 « | 10 4 10 4 | 90 ec | بى ئىرى | * 4 | 80 80 70 84 | 850 2 4 | ω « υ « | 10 e | 10 K | 0 Q | D 0 |
| 2002 | 91 | 15 | 95 | 95 | 36 | 95 | 91 | 8 6 | 8 8 | 96 | 8 0 | m | 83 | ı | 2 | 87 | 96 | 85 | 86 |
| 1 250 | 88 | 88 | 89 | 93 | 86 | 68 | 87 | 96 | 85 | 94 | 83 | = | 83 | 5 | 11 | 81 | 81 | 79 | 83 |
| 315 | 91 | 8 | 91 | 91 | 8 | 69 | 8 | 86 | 82 | 83 | 85 | . | 40 | • | 7.7 | 80 | 79 | 18 | 80 |
| | 6 6 | 69 | 8 6 6 | 16 | 93 | 9 6 | ტ დ | 70 | 5.5 | % | 4 6 | o (| 81 | | <u>د</u> د | 5.0 | 64 | 78 | 71 |
| 989 | 7 6 | 4 6 | 3 5 | 2 G | † 4 | y 0 | 9 C | 0 4 | o ≪ | 0 K | , t | Σ |) (| 4 6 | ⇒ 0 | 9 G | ٠ د | ٠ د | : 1 |
| 999 | 6 | 6 | 6 | 95 | \$ | 90 | 87 | 8 0 | , eo | 9 7 | 52 | · | 100 | | . e | 2.2 | 9 0 | 9 2 | 2: |
| 1000 | 96 | 87 | 96 | 95 | 91 | 88 | 86 | 83 | 81 | 79 | 11 | 3 | 77 | | 92 | 92 | 77 | 22 | 72 |
| 1250 | 88 | 87 | 16 | 91 | 89 | 86 | 40 | 82 | 79 | 77 | 25 | m | 77 | • | 2 | 92 | 75 | 73 | 72 |
| 1600 | 98 | 87 | 2 6 | 06 | 88 | 8 | 8 | 19 | 4 | 92 | 74 | 2 | 9/ | ۰ | * | 92 | 11 | 4 | * |
| 2000 | S 4 | 87 | 66 | on « | 60 e | 60 d | M 4 | 87 | 79 | 77 | 75 | m a | 7. | . | ٠ د | 75 | 76 7. | 7 t | 4 |
| 3150 | 8 2 | 9 | 60 | 9 60 | e e | † • | 4 4 | . 6 | 9.2 | 2 12 | : : |) ec | . M. | ٠ | 1 2 | 7 K | 1 2 | 2 2 | 2 % |
| 9964 | 10 | 96 | 91 | 69 | 88 | 9 | 82 | 79 | 11 | 25 | 72 | | 73 | | M | 74 | 72 | 2 | 2 |
| 2000 | 81 | 83 | 68 | 96 | 96 | 81 | 79 | 9, | 1. | 11 | 69 | 9 | 70 | C. | 59 | 20 | 7.1 | 29 | 68 |
| 쿲 | 78 | 81 | 88 | 82 | 83 | 7.8 | 92 | 73 | 20 | 99 | 65 | ~ | 65 | ~ | 29 | 99 | 68 | 69 | 99 |
| 0000 | 22 | 79 | 96 | 90 | 8 | 11 | 47 | Z | 68 | 9 | 29 | €0 | 61 | m | 51 | 61 | 62 | 53 | 60 |
| 9000T | 73 | 77 | 83 | 77 | 11 | 47 | | 6 8 | 65 | 62 | 59 | _ | 28 | ው | 99 | 20 | 23 | 25 | 21 |
| OVERALL | 103 | 103 | 105 | 106 | 105 | 103 | 102 | 160 | 66 | 97 | 96 | 96 | 96 | 97 | 98 | 100 1 | 00 | 66 | 101 |
| | | 1 | | | ***** | | | | | | | į | | | | į | Ĭ | i | į |

| (TABLE! | PERCE | PERCEIVED NOISE LEVEL | DISE LI | i u | (PND 8) | | | | | | | | | | |) IDENTI | IDENTIFICATIONS OMEGA 8.2 TEST 70.76.00 | NOIL | |
|--|-------|-----------------------|----------------|--------------|-------------|-------|------|----------------|----------------------|-----------------------|--|----------------|-------------------------|-----------------------|--------|-------------------------------|---|--------|-------------------|
| MOISE SC MOISE SC ME15 ME35 | | UBUECT I | 3 | . ! | . i α. | | | OWER | ONER (SUPPRESSED) | 20000 | METEOROLOGY TEMP BAR PRE: REL HUM | PRESS HUMIO | = 59 = 29,92 = 70 | 9 F 2 IN HG 0 % | و | ALACIA OPERIO 1 28 NOTE | RUN 04 AIRCRAFT OPERATION 26 NOV 79 PAGE 04 | S I ON | 761 00101 A |
| (DISTANCE (FEET) | | 10 20 | 20 | e e | 3 | 99 | 99 | 70 | ANGLE 80 | (DEG 90 | DEGREES) | 110 | 120 | 130 | 140 | 158 | 160 | 170 | 160 |
| 250 | 113.8 | | 118.6 116.3 | | 116.8 | 113.9 | | 109.7 | | 105.6 | .0 50 | | J 100 (| | - 10 (| | | | 104.6 |
| | 186.9 | | 111.5 | 1100 | 110.0 | 107.0 | | | 100.7 | 98.7 | 96.7 | H 🖘 . | 97.7 | 97.3 | | | | 97.1 | 98.2 |
| 638 | ; ; | 102.4 | | 108. 105. | 107.9 | 101.9 | | ~ ~ | 98.2 95.6 | 96.2 93.7 | 94.3 | . 40 | 95.3 92.8 | 94.8 | N .O | | _ | | 93.4 |
| 908 | 99.1 | | | 102. | 102.1 | 39.2 | _ | _ | 93.0 | 91.1 | 89.1 | N | 90.2 | 9.69 | on. | _ | | | 2.06 |
| 1000 | 96.2 | | 100.2 | 66 | or o | 96.6 | 94.5 | 92.4 | 90.3 | 4.88 | 96.4 | 84.5 | 97.4 | 86.6 | 86.1 | 88.1 | 87.5 | 86.5 | 87.7 |
| 1550 | 93.2 | 90.00 | 96.9 | 9 6 | თ თ | 93.7 | 91.6 | 69.50 66.50 | 87.5 | 855 87 87 87 | 8 3.5 | 81.7 | 84.4 | 83.7 | 83.07 | 84.6 | 84.5 | N | 84.5 |
| 2000 | 67.0 | | | 900 | 60 | 87.5 | 65.3 | 83.3 | 81.2 | 79.3 | 77.3 | 75.4 | 78.1 | 12:4 | 76.6 | 7.27 | 77.7 | 76.8 | 77.3 |
| 2500 | 83.5 | | | 8 | 9 6 | 84.0 | 81.8 | 79.8 | 77.7 | 75.7 | 73.7 | 71.7 | 74.6 | 73.9 | 73.0 | 74.1 | 73.9 | 73.2 | 72.9 |
| 0004 | 75.0 | 75.1 | | 7 8 | 7. | 75.9 | 73.7 | 71.5 | 69.3 | 67.2 | 64.9 | 62.8 | 65.0 | 65.1 | 64.3 | 65.2 | 65.3 | 64.6 | 63.7 |
| 2000 | 70.7 | | 72.7 | 7. | ~ 4 | 71.1 | 68.9 | 66.7 | 64.4 | 62.2 | 59.9 | 57.7 | 500.7 | 0.09 | 59.4 | 0.09 | 60.1 | 59.5 | 56.4 |
| 9000 | 60.8 | 60 | 63.3 | 6.4 | 63. | 61.9 | 59.6 | 57.2 | 54.6 | 52.5 | 50.1 | 47.7 | 50.0 | 20.1 | 49.1 | 9 | 50.1 | 49.6 | 48.1 |
| 70000 | 56.3 | 56.2 | 58.8 | 60 | 59.1 | 57.2 | 54.9 | 52.6 | 50.0 | 47.7 | 45.1 | 42.6 | 46.1 | 6 6 9 | 63.7 | 44.7 | 44.8 | 44.2 | 42.8 |
| (12500 | 51.2 | | 53 | 55. | | 52.1 | 49.6 | 47.4 | 44.7 | 42.2 | 39.3 | 36.4 | £0.3 | 38.5 | 36.5 | 39.0 | 36.5 | 37.6 | 36.3 |
| 16000 | 45.7 | 45.3 | 48.0 | 49.2 | 48.6 | 46.5 | 43.9 | 41.2 | 38.4 | 35.6 | 32.7 | 29.3 | 33.5 | 32,2 | 30.8 | 31.7 | 30.9 | 29.7 | 28.8 |
| 20000 | 38.7 | | ; | 2 1 | 41.9 | 39.7 | 37.2 | 34.4 | 30.7 | 26.0 | 24.8 | 19.7 | 25.8 | 24.3 | 21.5 | 21.3 | 20.5 | 19.1 | 17.1 |
| | 30° 3 | | 32. | , , | ÷ | 31.6 | 28.6 | 25.1 | 9 '02 | 16.9 | 10.4 | 10.1 | 12.9 | 10.7 | 7.6 | 7.6 | 10.1 | .5 | . |

| 761 00101 A | 190 | 2000 2000 2000 2000 2000 2000 2000 200 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 17.1 5.4 |
|--|--------------------|---|---|-------------------------|
| _ # | 170 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 140 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 19.1 |
| 11CA 19-76 14-76 11CA 17-79 | 160 | 1100 1000 1000 1000 1000 1000 1000 | | 20.5 10.1 |
| DIDENTIF DAMEGA DITEST DRUN DAMEGRA DOPERA D | 153 | 1167.0 1167.0 1167.0 1167.0 1167.0 1167.0 1167.0 | 40 00000000000000000000000000000000000 | 21.3 7.6 |
| | 140 | 00000000000000000000000000000000000000 | 40000000000000000000000000000000000000 | 21.5 7.6 |
| FH X | 130 | 104.1 1 102.0 1 99.7 97.3 94.8 | 000 0000000000000000000000000000000000 | 24.3 24.3 10.7 |
| # 29,92 # 29,92 | 120 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 100 100 100 100 100 100 100 100 100 100 | 25.8 12.9 |
| GY 1 GY 1 GY 1 UM ID | 110 | 99.3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2000 11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 23. 19.7 10.1 |
| METEOROLOGY TEMP BAR PRE REL HUM | REES) | 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 4 | 36.7 24.8 10.4 |
| # | 108 | 20035 00135 | 60000000000000000000000000000000000000 | 25 . 0 15 . 9 |
| SSED) | ANGLE 80 | 107,6 1105,4 1103,1 1103,1 1100,2 98,2 | | 30.7 |
| OB) SOURCE POWER E (SUPPRESSED | 202 | 107.5 1 107.5 1 105.2 1 102.8 1 97.6 | 240 00000000000000000000000000000000000 | 41.62 34.4 25.1 |
| A PAO MER P COLINE | 69 | 1111.6 109.6 107.3 102.3 102.3 | | 37.2 28.6 |
| DISE LEVEL DISTANCE F ERATION: SATERBUR SROUND R | 50 | 11111111111111111111111111111111111111 | 0.000000000000000000000000000000000000 | 39.7 31.6 |
| 0 0 0 | 3 | 1116.6 1114.6 1112.3 1110.0 110.0 110.0 | | 4 10 0 3 4 0 0 |
| CCET VED I | 96 | 115° 6 1 | 00000000000000000000000000000000000000 | 4 % C 0 0 3 3 % 1 |
| OF ANG | 20 | | 40000000000000000000000000000000000000 | 41.4 32.8 |
| A FUNCTION A FUNCTION F. SUBJECT: THE 3 SUPPRESSO LD NOISE | 10 | 11117. 11117. 11107. 11107. 11107. 11107. | | 38.5 |
| AS A FUNCTION OF ESOURCECTED, AS A FUNCTION OF ESOURCE/SUBJECT: F-15 IN THE FARSTON FAR-FIELD NOISE | | 1111 1111 1100 1100 1100 1100 1100 110 | 00000000000000000000000000000000000000 | 38.7 30.3 |
| TABLE * | DISTANCE (FEET) | 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 1100 1100 1100 1100 1100 1100 1100 110 | 20000 20000 20000 |

| (TABLE: | A-WEIG | A-WEIGHTED OVERALL | VERALL | S | UND LEVEL | (08A) | | | | | | | | | |) IDEN | IDENTIFICATIONS OMEGA 8.2 | IONS | |
|--------------------|--|--|-----------|---------|--|---|--------------|----------------------|------------|--------------|---|---|------------------------------|-----------------------|--------------|-----------------------|--|-------------------------|---------------------------|
| | AS A F | AS A FUNCTION | N OF | ANGLE A | AND DISTANCE | - 1 | FROM S | SOURCE | 1 | | | | | | | TEST | 0.3 | Ş | |
| SION | E SOURCE/SUBJECT F-15 IN THE AF32A-23 SUPPRES FAR-FIELD NOISE | E SOURCE/SUBJECT: F-15 IN THE AF32A-23 SUPPRESSOR FAR-FIELD NOISE | | | | RATION: AFTERBURNER P SINGLE ENGINE GROUND RUNDP | | OWER (SUPPRESSED) | ESSED | # 6 | HETEOROLOGY TEMP BAR PRE REL HUM | SS | = 29.9 | 9 F 2 IN HG 0 X | 48 | PPEE | FIGN 7. EGN 7. br>20 DE 20 DE | 761) 00101) N A) |
| (DISTANCE (FEET) | - | 97 | 50 | 30 | 3 | 50 | 99 | 7.0 | ANGLE | · 38 | . 1 2 - | 1 9 | 12 | 130 | 140 | 150 | 160 | 170 | 188 |
| 50 0 | 99.8 | 100.4 | 103.6 | 104.0 | 103.2 | 100.3 | 98.1 | 96.0 | 93.8 | 91.8 | 89.7 | 87.7 | 90.7 | 89.3 | 89.0 | 89.9 | 90.0 | 88.6 | 88.5) |
| 250 | 97.6 | | 101.5 | 101.8 | | 98.2 | 96.0 | 93.9 | ~ | 89.7 | 87.6 | 85.6 | 99.6 | 87.8 | 86.9 | | | 86.5 | 86.4 |
| 004 | 0 m | 93.8 | 6 ° 6 ° 6 | 97.4 | 96.6 | 9000 | 91.7 | 89.6 | | 85.4 | 83°4 | 61.4 | 0.00 0.00 0.00 0.00 | 63.5 | 82.6 | | . ب | 62.3 | 82.1) |
| 200 | 91.0 | 91.5 | 94.6 | 95.2 | \$ | 91.6 | 89.5 | 4.78 | | 83.2 | 81.2 | 79.2 | 82.1 | 81.2 | 4.08 | | 100 | 98.1 | 79.9 |
| 900 | 86.4 | 86.6 | 92.2 | 92.9 | 92°1 89°7 | 89.4 87.0 | 87.2 84.9 | 85.1 82.8 | | 81.8 78.6 | 78.9 76.6 | 76.9 74.6 | 79.9 | 79.1 76.6 | 78.1 75.8 | 7 8. 9 76.5 | 79.0 76.7 | 77.8 | 75.5) |
| _ | | | | | | | | | | | | | | | | | | | ^ |
| 1000 | 84.0 | 64.3 | 87.1 | 8 | ~ | 84.7 | 82.5 | 80.4 | m | 76.2 | 74.2 | 72.2 | 75.2 | | 73.4 | 74.1 | 74.2 | 73.0 | 72.6) |
| 1250 | 81.5 | 81.7 | 84.5 | | 40 40 60 60 60 60 60 60 60 60 60 60 60 60 60 | 82.2 | 80.0 77. | 77.9 | | 73.8 | 71.7 | 69.7 | 72.6 | 71.7 | 78.9 | 71.5 | 71.6 | 70.5 | 69.9 |
| 2000 | 76.2 | 76.3 | 78.9 | 8 | 79.5 | 77.0 | 6.42 | 72.7 | . . | 68.5 | 66.4 66.4 | 1 4 . 49 | 67.3 | 66.5 | 65.6 | 62.9 | 66.2 | 65.1 | 64.1 |
| (2500 | 73.3 | 73.3 | 75.9 | 77. | S | 74.1 | 72.0 | 69.8 | ۰ | 65.6 | 63.4 | 61.4 | 64.3 | 63.6 | 62.6 | 65.9 | 63.2 | 62.1 | 60.8 |
| 3150 | 70.0 | 70.0 | 72.6 | 74. | ri, | 71.0 | 66.8 | 999 | | 62.3 | 50.2 | 58.1 | 61.0 | 60. | 59.4 | 59.6 | 6.65 | 56.8 | 57.3) |
| | 66.4 | 66.4 | 68.9 | 6 | å, | 67.5 | 65.2 | 63.0 | ۰. | 58.7 | 56.5 | 54.4 | 57.4 | 56.8 | 52.0 | 55.9 | 56.3 | 55.2 | 53.5) |
| 6366 | 57.9 | 56.0 | 69.4 | 62.5 | 8 +4 | 59.1 | 56.9 | 54.6 | • | 50 ° 30 | 48.1 | \$ 00 00 00 00 00 00 00 00 00 00 00 00 00 | 0.00 | 48.4 | 47.6 | 67°5 | 67.9 | 46.7 | 45.8 |
| 9000 | 54.0 | 54.0 | | | 57.8 | 55.5 | 53.0 | 50.8 | ٠ | 46.5 | P . 4 4 | 42.1 | 45.1 | | 43.7 | 43.6 | 64.0 | 43.8 | 41.0 |
| | • | | (| | | i | • | | 4 | | | ; | | | 1 | | | ; | ^ : |
| | 4 7 ° 0 | 7.64 | 52.0 | - | ν. | 51.1 | | , eq. | | 42.3 | 40°2 | 38.0 | 6.04 | 100 | 39.5 | 4 00 4 | ٠, | 78°0 | 37.0 |
| 16000 | 0 0 | | , | _ | 0 v | | | 16. | | | | ? | ? | 200 | • | P 6 | ٠, | • | 7 0 0 0 0 |
| 20000 | 34.7 | 7 . 4 Mf. 4 | 36.6 | 3 6 | 37.9 | 35.9 | 33.6 | 31.7 | 29.6 | 27.6 | 25.6 | 23.6 | 26.1 | 25.4 | 24.6 | 25.2 | 26.4 | 24.7 | 24.2 |
| (25000 | 28.8 | 28.4 | 30.6 | | 31.6 | 29.0 | 27.8 | 25.8 | 23.8 | 21.8 | 20.0 | 16.1 | 20.4 | 19.7 | 19.1 | 20.4 | | 19.7 | 20.1) |
| . | | | | | | | | | | | | | | | | | | | • |

| ⋖ | 2 | FUNCTION FUNCTION | ĕ | | | 1 | | 1 | | | | | | | | | 7 0 W | | |
|--------------------|--|--|-------|-------|-----------------------------------|---|--------------|------------------------------------|--------------|-----------|---|--------------------------------|-------------------------|--|------|--|--------------|--------------|--------------|
| 25 TE | E SOURCE/SUBJECT F-15 IN THE AF3ZA-23 SUPPRES FAR-FIELD NOISE | E SOURCE/SUBJECTS F-15 IN THE AF3ZA-23 SUPPRESSOR FAR-FIELD NOISE | 3 | ANGLE | AND DIS | DISTANCE FROM ERATION AFTERBURNER SINGLE ENGIN GROUND RUNUP | | SOURCE POWER IS (SUPPRESSED) | ESSED) | Ŧ 0 | METEOROLOGY TEMP BAR PRE REL HUM | SS | # 59 # 29,92 # 70 | 99 H K K K K K K K K K K K K K K K K K K | | DEST 79 DECRAF DOPERATI PROFILE PAGE G | F - 2 - 6 4 | | 761 00101 |
| OISTANCE (FEET) | | 0 10 | 92 | 30 | 3 | 50 | 9 | 70 | ANGLE | | REES) | 110 | 12 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | | 100.4 | 103. | 164. | 103.2 | 100.3 | 98.1 | 96.0 | 93.8 | 91.6 | 89.7 | 87.7 | 91.2 | 89.9 | 89.0 | 9.6 | 90.0 | 98.6 | 89.0 |
| | 97.6 95.5 | 96.1 | - | - | 1 1 1 6 6 9 8 8 8 | 96.0 | 9.00 | 93.9 | 91.6 89.6 | 87.6 | 87.0 85.5 | 8 % 3, 6 5 | 87.0 | 85.7 | 8.6° | 85.6 | 85.7 | 84.4 | 3 t • 6 |
| 400 | 93,3 | 93.8 | 96 | 97. | | 93.9 | 91.7 | 9.68 | 87.5 | 85.4 | 83.4 | 81.4 | 6.49 | 83.5 | 82.6 | 63.5 | 83.6 | 82.3 | 82.7 |
| | 91.0 | 89.2 | 92.2 | 9.00 | 94.4 | 91.6 89.4 | 67.2 | 87.4 | 83.0 | 83.2 | 78.9 | 7 9. 2 7 6. 9 | 87.0 80.4 | 81.2 79.0 | 78.1 | 51.2 78.9 | 79.0 | 77.8 | 78.1 |
| | 86.4 | 86.8 | 89. | 96 | | 87.0 | 6 • 4 8 | 82.8 | 80.7 | 78.6 | 76.6 | 74.6 | 78.1 | 76.6 | 75.8 | 76.5 | 16.7 | 15.4 | 75.6 |
| 1000 | 84.0 | 84.3 | 87.1 | 8 | 87.3 | 84.7 | 82.5 | 4.08 | 78.3 | 76.2 | 74.2 | 72.2 | 75.7 | 74.2 | 73.4 | 74.1 | 74.2 | 73.0 | 73.1 |
| | 81.5 78.9 | 79.0 | 84.5 | 82.0 | 8 4.0 8.0 8.0 8.0 8.0 | 79.6 | 77.5 | 75.4 | 73.2 | 73.8 | 71.7 | 69. 7 67. 1 | 70.5 | 71.7 69.2 | 68.3 | 71.5 66.8 | 71.6 69.0 | 67.8 | 70°4 67°5 |
| | 76.2 | 76.3 | 76.9 | 8 | 79.5 | 77.0 | 74.9 | 72.7 | 70.6 | 68.5 | 66.4 | 4.49 | 67.8 | 66.5 | 65.6 | 62.9 | 66.2 | 65.1 | 9.49 |
| | 73.3 70.0 | 73.3 | 72.6 | 7. | 7 28 50 | 74.1 | 72.U 58.8 | 69.6 66.6 | 67.6 64.4 | 65.6 | 63.4 | 58.1 | 64.8 51.5 | 63.6 60.4 | 59.4 | 6 5 9 9 5 9 . 6 | 63.2 59.9 | 62.1 58.8 | 61.4 57.9 |
| | 66.4 | 66.4 | 69.3 | 70. | 7 0. 0 | 67.5 | 65.2 | 63.0 | 60.8 | 58.7 | 56.5 | 54.4 | 57.8 | 56.8 | 55.9 | 55.9 | 56.3 | 55.5 | 53.9 |
| | 62.3 | 62.3 | 9 4 9 | 9 (| | 63.4 | 61.2 | 59.0 | 56.8 | 54.6 | 52.4 | 50.3 | 53.6 | 52.8 | 51.9 | 51.8 | 52.3 | 51.1 | 49.6 |
| 9000 | 54.0 | 54.0 | 56.4 | 5 6 | 57.8 | 55.2 | 53.6 | 50.0 | 4 0° 0 | 46.5 5 | 4 6 4 4 | 42.1 | 49.1 | * 6 * 6 * 6 | 43.7 | 43.6 | , | 40.0 | 41.1 |
| _ | 8 .64 | 7.64 | 52.0 | 7 | 5. 5. | 51.1 | 99 | 46.7 | 44.5 | 420.3 | 6.84 | 38.0 | 6-64 | 40.4 | 39.5 | 30.6 | 39.7 | 38.9 | 37.0 |
| 12500 | 45.2 | 45.8 | 47.3 | | 4.8.8 | 46.5 | F . 3 | 42.1 | 40.0 | 37.8 | 35.7 | 33.6 | 36.3 | 35.8 | 34.9 | 34.9 | 35.1 | 34.4 | 32.8 |
| | 40.2 | 39.9 | 42.2 | 430 | 43.6 | 41.5 | 39.3 | 37.2 | 35.0 | 32.9 | 30.8 | 28.8 | 31.4 | 30.8 | 29.9 | 30.2 | 30.2 | 29.7 | 28.5 |
| | 34.7 | 34.4 | 36.6 | 36 | 37.9 | 35,9 | 33.8 | 31.7 | | 27.6 | 25.6 | 23.6 | 26.1 | 25.4 | 24.6 | 25.2 | 25.1 | 24.7 | 24.5 |
| | 30 | , | | | | | | | | | | | | | , , | | | | |

| | 013 | ANCE | 250 F | EET | | | | | | | | | |) ONEGA | OMEGA 8.2 TEST 79-761-00 | 2 51-001 | -4 |
|---------------|---------------------------|--|-------------------|-----------------|--|--|----------------------|-------|---|-------------|-----------------------------|----------------|----------|--------------|---|-----------------------|---------------------|
| NOISE PART | SOURCE 15 IN 32A-23 | E SOURCE/SUBJECT! F-15 IN THE AF32A-23 SUPPRESSOR FAR-FIELD NOISE | GT: ESSOR E | 000 | SERATIONS AFTERBL SINGLE GROUND | ATION: ATTERBURER PONER SINGLE ENCINE GROUND RUNUP (SUP | OWER (SUPPRESSED) | į | METEOROLOGY S TEMP BAR PRES REL HUHI | i voe | 29,92 29,92 70 008 | 9 F 2 IN HG | | PAGE CONTROL | RUN 04 AIRCRAFT CODE 7 OPERATION CODE 6 PROFILE VERSION 28 NOV 79 PAGE J4 | CODE CODE ERSIO | 761 00101 N A |
| | | | | 910 | PNL1 | | | A#AL | | | | T=AL | - | | | | 1 |
| | • | | • | | | , | | | | | | > | | • | ď | | |
| | | • | • | • • • • • | • | • | • | • | • | • | • | • | • | • • | • | • | • |
| | 8 8 | • • • | • • • | • • • | - • | | • • • | • • • | - • | | • • • | < | × | • • • | a. | • • • | |
| | 98 | ٠ • • | • | • | • | • | • | • | • | • | • | • | × | • | • | • | |
| | 9 | • • | • • | • | | | • | • • • | • |))) | • • • | • | | • • | | • • | |
| ⋖ | 20 | • • | • • | • • | . • | | • • | | • | | • • | × | | • • | 0. | • • | |
| Z (| 9 | • | • | • | | • | • | • | | , | • • | : · | | • 0 | | • | |
| بيا نــ (| 9 2 | | | • | • | • | • | • | • | • | • | • | • | • | • | • • • | |
| . | 20 | • • | • • • | • • • | • | | • • • | • • • | • • | | × | . | • • • | | | • • • | |
| Z | 96 | • • | • | • | • | • | • | • | • | • | • × | • | à | • • | • | • | ~ ? |
| - | | • | • | • | • | | • | • | • | • | • | • | • | • | • | • | _ |
| י ט נ | | • • | • • | • • | • | | •• | • • | • | | K | | · · | • • | | • • | |
| K M | 110 | • • | • • | • • | • • | | •• | • • | • | × | • • | - | •• | • • | | • • | ~ ~ |
| m N | 120 | • • • | • | • | • | • | : | • | • | • | · · | • | . | ••• | • | • | |
| | 130 | •• | •• | • • | • • | | | . • | • | | • · | | ٠. | • • | | • • | ^- |
| | 140 | • | • | • | • | | • • | • • | • | | · · | | ď | • | | • • | |
| | 150 | ٠. | • | • | • | • | • | • | • | • | · · | • | • | • • | • | • • | ~ : |
| | 160 | • • | • • | • • | •• | | •• | ٠. | •• | | • • | | •• | • • | | • • | ~ ~ |
| | 170 | •• | •• | • • | •• | | •• | • • | •• | | · · | | ٠. | • • | | • • | |
| | 1,00 | ٠. | • | • | • | • | • • | • (| • | AT | • | , | • | • | | • | ~ - |
| | | ••• | | . ; | | | | | | | | | | | | • | - 1 |
| | | 50 | 30 | 9 | | 6 | | 4 | | • | 8 | | 001 | ** | | | • |

| F-16 AIRCRAFT IN THE F-16 AIRCRAFT IN THE | EL UN THE GRUUND BY | RAFT IN THE | D RUN-UP OPERATIONS | TEST 79-738-001 AIRCRAFT CODE: 738 PROFILE VEKSION: A COMPUTER PROGRAM OMEGA 8.2 | Page | | THE FOLLOWING DATA ARE PROVIDED: | RMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY NORMALIZED SPL AT 250 FEET NORMALIZED SPL AT 250 FEET TSE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL | RESEARCH LABORATORY AIR FORCE BASE, OHIO | F-16 AIRCRAFT IN THE F-16 AIRCRAFT IN THE F-16 AIRCRAFT IN THE F-16 AIRCRAFT IN THE F-16 AIRCRAFT IN THE |
|--|---------------------|---------------|----------------------|---|---------------|---|----------------------------------|--|---|--|
| F-16 AIRCRAFT IN THE F-16 AIRCRAFT IN THE | LOUISE PEDDUCE | F-16 ALFCKAFT | DURING GROUND RUN-UP | TEST AIRGRAFT PROFILE COMPUTER P | Power Setting | Idle Fower, 65% RPM Engine Runup, 80% RPM Military Power, 91% RPM . Afterburner Power | FOR EACH POWER SETTING, IN | NORMALIZED DATA AS A FUNCTION OF ANGLE NORMALIZED SPL AT 250 FEET NOISE LEVELS AS A FUNCTION OF ANGLE AND PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL NOISE LEVELS AS A FUNCTION OF ANGLE AT | EROSPACE MEDICAL RIGHT-PATTERSON | F-15 AIRCRAFT IN THE F-16 AIRCRAFT IN THE |
| F-16 AIRCRAFT IN THE F-16 AIRCRAFT IN THE | | | | | | | | | 4 I | F-16 AIRCRAFT IN THE F-16 AIRCRAFT IN THE |

| BLES | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 250 | F P E | 3 | LE LE | (08) | | | | | 1 | | • | | IDENTI OMEGA TEST | | TION: 2 38-061 | |
|-------------------------------|---|----------------------|------------|------------|---|--------------------|------------------|--------------|------|-------------------------------|---|------------------|---------------------------------------|------|--|----------------------------------|------------------------|--------------|
| NOISE F-16 AF32 FAR- | SOURCE/SUBJECT! AIRCRAFT IN THE A-25 SUPPRESSOR FIELD NOISE | 7.8 0.8 | | OPER ID | ERATION: IDLE POWER 65 % NZ 440 FIII | ER (6 N2 FIT | 5% RPH) 850 L | BS/ | | HETEOR JAR SAR DELTA | METEOROLOGYS TEMP SAR PRESS REL HUMID DELTA N = | # 29.9 # 29.9 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 9 | AIRCRAFT OPERATION PROFILE V 28 NOV 79 PAGE C1 | LAFT NTION SLE VE NV 79 | CODE CODE ERSION | 738 00113 |
| (BAND CENTER (FREQ (HZ) | | 10 | 92 20 | 96 | 3 | 52 | 9 | ANGL 70 8 | | DEGREES 90 10 | S) 60 11 | 0 120 | 130 | 140 | 150 | 160 | 170 | 2 |
| 20 | \$ | 6 2 | 49 | 62 | 63 | 63 | 65 | | N | _ | | 9 | 62 | 9 | | 62 | 59 | 61 |
| | 99 | 79 | 70 | 49 | | | 63 | | | | * | • | 9 | 'n | | 20 | 23 | 63 |
| 98 | 65 | 68 | 69 | 69 | | | 63 | | | | ۰ | 9 | 63 | 9 | | 65 | 9 | 73 |
| 100 | 99 | 7 9 | 29 | 29 | | | 69 | | | | ~ | 9 | 69 | 9 | | 70 | 29 | 29 |
| 125 | 9 | 99 | † | 49 | | | 63 | | | | . | 9 | 61 | • | | 61 | 29 | 9 |
| 160 | 6 7 | 65 | 63 | 40 | | | 9 | | _ | | ⊣ • | יט ו | | ığ ı | | 6 1 | 57 | 20 |
| 250 | 0 4 | 3 5 | 2 6 | 0 V 0 W | 1 19 | 0 G | 5 5 6 | 20.0 | 55 | 7 7 9 | 5 0 5 0 | 54 54 | , r | s t | 1 5 | 7 5 | γ σ | |
| 315 | 9 | 62 | 62 | 25 | | | 22 | | | | · 😊 | . 4 | 4 | * | | 4 | 9 | 4 |
| 00% | 58 | 9 | 29 | 96 | | | 53 | | | | 60 | * | 14 | | | 64 | 47 | 50 |
| 005 | 59 | 61 | 63 | 25 | | | 55 | | | - | • | 4 | 48 | 3 | | 64 | 46 | 64 |
| (630 | 99 | 65 | * | 69 | | | 60 | | | | | S | 46 | 4 | | 20 | 47 | 24 |
| 008 | 61 | 95 | 65 | 66 | | | 52 | | | | _ | , | 47 | 3 | | 20 | 47 | 42 |
| 1000 | 28 | 61 | 63 | 25 | | | 52 | | | _ | _ | * | 46 | * | | 4 | 47 | 4 4 |
| (1250 | 23 | 63 | 99 | 9 | | | 58 | | | - | o o | * | 43 | * | | 6 | 44 | 44 |
| 1600 | 29 | 63 | 65 | 9 | | | 24 | | | _ | • | • | 47 | 4 | | 4 | † | 38 |
| 2000 | 9 | † | 62 | 9 | | | 53 | | | _ | S. | 41 41 | 38 | M | | 7 | 38 | 37 |
| 2560 | 73 | 2 | 16 | 92 | | | 29 | | | | 9 | w | 5 | Š | | 52 | 46 | 6 |
| 3150 | 29 | 7 | 72 | 7. | | | 62 | | | | | S. | 20 | \$ | | 25 | Ţ | 4 |
| 0004 | 65 | 72 | 7. | 29 | | | 9 | | | | ∞ | 3 | 4 | ż | | 45 | 9 | 9 |
| 2000 | 61 | 3 | 29 | 62 | 3 | | 55 | | | _ | ۰ | 42 43 | 42 | 3 | | 38 | 37 | 37 |
| 6300 | 20 | 9 | 6 2 | 20 | | | 52 | | | _ | N | M | 37 | M | | 35 | 36 | M M |
| 0009 | | 63 | 6 2 | 22 | | | † 0 | | | _ | | M | 38 | M | | 36 | 38 | # |
| 70006 | 20 | 62 | † | 22 | | | 64 |) 15 | • | - - | | M | 39 | M | | 37 | 45 | 37 |
| (OVERALL | 78 | 9 | 82 | 90 | 78 1 | 92 | 25 | 75 7 | 77 7 | 77 | 73 7 | 71 71 | 72 | 2 | 72 | 73 | 70 | 75 |
|) | | | | | | | | | | 7 | | | | İ | | | | |

| (TABLES | | PERCEIVED NOISE | | | (PNDB) | , | | | | | | | | | |) IDENT | IDENTIFICATIONS OMEGA 6.2 | IONS | |
|--------------------|--------------------------------|---------------------------|--------------|-------------------|-----------------------------------|---------------------------------------|----------------------|-------------------------|-----------------|----------------------------|--|--------------|-------------------------|---------------|--------------|---|------------------------------|--------------|-------------------|
| | AS A F | FUNCTION | Z 0F | ANGLE A | AND DISTANCE | | FROM SOURCE | OURCE | | | | | | | | TEST | 79-738-881 | 9-001 | • |
| SION | URCE/ AIRC A-25 FIELD | BJECT1 FT IN PPRESS | 17 HE | | OPERATIONS IDLE P 65 440 | RATION: IDLE POWER (65 % N2 440 FTIT | WER (6 N2 FTIT | (65% RPH) 850 L | PH) 0 LBS/H3 | ž 5 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | | = 59 = 29.92 = 70 | FIN S E | | AIRCRAF OPERATI PROFILE 28 NOV | 그는 요 누 뭐 | S TOR | 738 08113 A |
| (DISTANCE (FEET) | | 10 | 26 | 8 | 3 | 50 | 0.9 | 20 | ANGLE 80 | 90 | GREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 160 |
| 200 | 94.2 | 96.8 | 98.1 | 96.2 | 94.0 | 91.3 | 86.9 | 00 00 00 00 00 00 | 93.0 | 82.08 | 80.3 | 79.6 | me | | | | | | 75.9 |
| 315 | 89.6 | 92.2 | 93.5 | 91.6 | 4.6 | 86.7 | M | 65.9 | 4.68 | 80.1 | 75.6 | 75.0 | | | | | | | 71.1 |
| 200 | 84.7 | 67.2 | 88.6 | 86.7 | 84.5 | 81.8 | 79.3 | 80.0 | 83.5 | 75.0 | 70.7 | 70.0 | u . | | | | | | 666.0 |
| 099 978 0 | 82.0 79.2 | 81.6 | 85.9 83.1 | 84.1 81.3 | 81.8 79.1 | 79.2 | 76.7 73.9 | 78.3 | 80.8 78.1 | 72.4 | 68.D 65.2 | 67.3 64.4 | 68.1 65.2 | 65.5 62.5 | 62.6 59.5 | 62.9 59.8 | 63.7 | 61.8 57.5 | 63.2 |
| 1030 | 76.2 | 78.6 | 80.2 | 78.3 | 76.1 | 73.4 | 70.9 | 72.5 | 75.1 | 66.5 | 62.0 | 61.2 | 9 | | | ıs | | 54.1 | 57.4 1 |
| 1250 | 73.6 | 75.3 | 77.0 | 75.1 | 72.9 | 70.2 | 67.6 | 69.2 | 71.8 | 63.2 | 58.5 | 57.7 | ~ < | | | - 0 | | 50.3 | 53.6 |
| 2000 | 65.7 | 67.9 | 69.7 | 67.8 | 65,6 | 65.9 | 60.1 | 61.6 | 9 4 9 | 55.3 | 50.6 | 6.64 | 0.00 | 6.74 | ** | . m | 49.5 | 4101 | 44.2 |
| 3150 | 61.2 56.4 | 63.7 58.7 | 65.5 | 6 % 5 % 5 % | 61.3 56.5 | 53.55 53.55 53.55 | 55.7 | 57.1 52.0 | 60°.0 | \$ 0.0 \$ 4.0 \$ 7.0 | 45°4 38°2 | 37.6 | 60 P 9 | | | . . | | 35.2 | 38.2 |
| 00000 | 50.6 | 53.0 | 55.3 | 52.9 | 50,4 | 47.8 | 44.5 | 45.9 | 4.9.1 | 36.7 | 31.5 | 26.8 | 4 00 | | | m c | | 18.1 | 20.4 |
| 6350 | 90.00 | 300 | 43.6 | 300 | | 33.00 | 27.2 | 27.5 | 32.4 | 19.2 | 6.5 | 6.0 | | | | • | | | |
| | 7.17 | C • C 7 | • 0 7 | 9 | 9 0 7 | 6 • 67 | | 12.0 | 7 · N / | 11.0 | | | | | | | | | |
| 10000 | 17.9 | 18.3 | 30.9 | 23.6 | 17.6 | 19.4 | 1.9 | 2.4 | 7.9 | * | | | | | | | | | |
| 16030 | 7 | • | 14.8 | . 0 | 2.1 | 6.8 | | | | | | | | | | | | | |
| | | | | • | | | | | | | | | | | | | | | |
| (| | | | | | | | | | | | | 1 | 1 | | , | | | |

| MOISE SOURCE/SUBJECT: F-16 AIRCRAFT IN THE AF32A-25 SUPPRESSOR FAR-FIELD NOISE DISTANCE (FEET) 0 10 2 | SOURCE/SUBJECT 16 AIRCRAFT IN 32A-25 SUPPRES 3-FIELD NOISE 10 97.2 99.2 94.9 96.9 94.9 96.9 | 1.0 ECT : 1.0 EC | 17 E C C C C C C C C C C C C C C C C C C | 30 34 30 50 50 50 50 50 50 50 50 50 50 50 50 50 | 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | ATIONAL TOLE POWER 65 X NZ 65 X NZ 69 X NZ 60 | # # # # # # # # # # # # # # # # # # # | (65% RPH) (65% RPH) 70 70 70 70 70 70 70 70 70 70 70 70 70 7 | BS/HR 80 80 996.9 996.9 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | METEOROLOGY BAR PRE BAR PRE BELHUM DECRES 10 110 | | 12.00 | 59 F 70 X H6 130 | 24°C | 150 150 150 150 150 150 150 150 150 150 | ATION ILE VE 50 79 E1 | | 7.36 061113 150 76.5 |
|---|---|--|--|---|---|--|--|--|-------------------------------|---|---|---------------------------------------|---|------------------------|------|---|-----------------------------|------|-------------------------------|
| DISTANCE (FEET) 200 | 0 7.2 0 2.6 0 2.0 7.7 | 1000 1000 1000 1000 1000 1000 1000 100 | • • | 1 8 9.7° | 2 | 00000000000000000000000000000000000000 | 6 00 00 00 00 00 00 00 00 00 00 00 00 00 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 11 | | AEES) 100 02.6 00.3 77.9 | 110 82.7 80.4 78.1 75.7 | 128 | 130 | 146 | 150 76.1 | 160 | 170 | 180 |
| | 26.22 | | 101.3 99.1 96.7 94.3 | | 9000 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 889.1 89.1 85.1 | 93.9 | | 87.95 82.1 80.3 | 82.6 80.3 77.9 | 80.4 78.1 75.7 | 83.4 | 81.4 | 77.6 | 78.1 | | 75.0 | 78.5 |
| | 20.07 | 96.5 96.5 92.1 | 96.1 96.1 94.2 | 95.4 | 9 0 0 0 2 0 0 0 2 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 82.1 82.5 82.5 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 80.3 77.9 75.5 | 80.4 78.1 75.7 | - | , | | 75.7 | 81.8 | 120 | |
| 315 | 2.2 | 92.1 | 94.3 | | 93.0 | 87.6 85.2 82.6 | 82.5 | 86.8 | | 80.3 | 75.5 | 75.7 | 78.6 | 76.8 | 75.2 | 73.2 | 79.5 | 73.5 | 76.1 |
| | 7.7 | 89,5 | | 93.0 | 87.5 | 85°2 82°6 | 85.5 | 84.3 | | | | | 76.4 | 74.3 | 70.4 | 70.8 | 74.8 | 68.5 | 71.2 |
| | 1 | 86.8 | 91.6 | 90.5 | | | , | 4 | | 77.7 | 73.0 | 73.1 | 73.9 | 71.9 | 67.8 | 68.2 | 72.3 | 65.9 | 68.6 |
| | 12.2 | | 86.3 | 85.1 | 62.1 | 79.8 | 77.1 | 78.8 | | 72.2 | 67.4 | 67.5 | 69.3 | 66.0 | 61.9 | 62.3 | 66.7 | 59.7 | 63.0 |
| | ć | • | 4 | | • | 96 | , | 9 | 6 | 9 | | | | | 4 | | * | | 9 |
| | 76.0 | 77.7 | 80.7 | ů | 76.0 | 73.6 | 70.0 | 72.5 | 75.7 | 200 | 9 0 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 61.8 61.8 | 50.4 | 0 t | , v , v | 6 0 0 6 0 0 6 0 0 | | 200 |
| | 2.5 | 74.2 | 76.7 | ı, | 72,5 | 70.1 | 67.3 | 69.9 | 72,2 | 62.1 | 57.0 | 57.1 | 58.1 | 55.5 | 51.1 | 51.4 | 56.4 | | 51.8 |
| | 50.7 | 70.3 | 72.9 | 4 | 68.7 | 66.3 | 63.4 | 65.0 | 68, 3 | 57.9 | 52.8 | 52.9 | 54.0 | 51.3 | 40.4 | 46.8 | 52.3 | | 46.8 |
| | 24.5 | 99 | 68.7 | | 6 fr 3 | 61.9 | 58.9 | 60.5 | 63.9 | 53.3 | 47.7 | 47.7 | 49.0 | 45.7 | 40.5 | 41.2 | 46.8 | | 40.8 |
| | 50.0 | 61.1 | 63,9 | សំ . | 6 6 7 | 57.3 | 53.6 | 55.3 | 58. | 47.2 | 40.4 | 6 .0 · | 45.5 | 36.2 | 33.1 | 34.0 | 40.6 | | 33.6 |
| | 53.0 | 24.0 | 57.0 | 9 | 5 m | 50.5 | 47.0 | | 52.2 | 38 | 300 | 31.3 | 35.0 | 29.9 | 21.4 | 23.3 | 32.8 | 19.6 | 22.5 |
| | 5.5 | 30.4 | 1 6 | å | | 2 C | 28.5 | 28.0 | | 200 | 7 6 | 10.0 | 70.4 | 12.0 | 0 | 7 | *** | | |
| | 7.7 | 30.0 | 30.6 | | 28.6 | 27.2 | 15.2 | 15.6 | 21.0 | 12.3 | • | | | | | | 3 | | ; |
| 10008 | 17.9 | 18.3 | 30.9 | | 17.6 | 19,4 | 6. | 7.6 | 7.9 | 4 | | | | | | | | | |
| | 9.6 | 9.1 | 24.0 | | 6 | 11.6 | | • | | • | | | | | | | | | |
| 16036 | ٠, | | 14.8 | • · | 2. 1 | 3.9 | | | | | | | | | | | | | |
| 25000 | | | 2.7 | • | | | | | | | | | | | | | | | |

| (TABLE: | | A-WEIGHTED OVERALL | VERALL | S | UND LEVEL | (08A) | | | | | | | | | |) I DENT | IDENTIFICATIONS OMEGA 0.2 | IONE | |
|-----------------------------------|---|----------------------------|---------------------|---|----------------------------------|--|----------------------|--------------|--------------------|---|---|--------------|----------------------------------|-------|--------------|---------------------------|-------------------------------|-------------------|----------------------|
| 1 | AS A F | Z 1 | 6 | ш | AND DISTANCE | TANCE | FROM S | SOURCE | | | ! | | | | | TEST | 79-738-001 | 8-001 | |
| (NOISE SOL (AF32/ (FAR-) | E SOURCE/SUBJECT: F-16 AIRCRAFT IN THE AF32A-25 SUPPRESSOR FAR-FIELD NOISE | BJECT 1 FT IN PPRESS | THE | | OPERA I | (OPERATION: (IDLE POWER (65) (65 % N2 (440 FIIT | WER (6 N2 FIIT | | RPM) 850 LBS/HR | Ŧ | METEOROLOGY TEMP BAR PRE REL HUM | S S S S | = 59 = 59 = 70 | N X X | | AIRCRAID OPERATION 28 NOV | AIRCRAFT OPERATION PROFILE VE | 000 C00 RSI | E 738) |
| (DISTANCE (FEET) | | 10 | 20 | 98 | 9 | 50 | 9 | 7.0 | ANGLE | | 1 6 3 | 110 | 7 | 130 | 140 | 150 | ! 9 | 170 | 180 |
| 200 200 (((| 79.0 | 82.3 | 83.7 | 81.9 | | 76.6 | 73.7 | 76.2 | 79.1 | 69•8 65•8 | 64.6 | 64.1 | 65.0 | 62.2 | 60 40 | | W 10 | 56.5 | 58.2 |
| 315 | 74.5 | 77.6 | 79.1 | 77.4 | | 72.1 | 69.2 | 71.6 | 74.5 | 6.4.6 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 | 50.5 | 59.6 | 58.3 | 57.8 | | m - | - o | 50.00 | 50.0 |
| 200 | 69.7 | 72.6 | 74.3 | 72.5 | 69.8 | 67.4 | 64.5 | 66.8 | 69.7 | 59.9 | 55.6 | 24.0 | 50.00 | 53.2 | , 00 m | 51.9 | 52.5 | 500.2 | 51.0 50.0 50.0 |
| 000 | 6 40 4 | 67.2 | 69.2 | 67.3 | | 62.3 | 59,3 | 61.5 | 4 • 4 9 | 54.8 | 20.6 | 6.6 | 51.0 | 48.2 | | | . ~ | 45.3 | 47.3 |
| 1000 | 61.7 58.7 | 64.3 | 65°4 | 64.5 | 61.8 8.9 | 59.6 | 53.5 | 58.6 55.5 | 61.5 58.4 | 52.1 | 47.9 | 47.0 | \$ 40 50 50 50 50 | | 43.4 | | 47.1 | 42.8 | 44.5 |
| 1600 | 55.5 | 57.9 | 60.6 | 58.3 | 52.7 | 53.7 | 50.5 | 52.1 48.5 | 55.1 | 45.2 | 42.1 39.0 | 40.9 | 39.3 | | 37.7 | | 41.3 38.2 | 37.3 | 38.8 |
| (2500 | 48.6 44.8 | 50.7 46.7 | 50.7 | 51.2 47.4 | 48.8 45.1 | 47.2 43.7 | 43.6 39.9 | 44.5 40.1 | 47.4 | 39.6 36.il | 35.6 32.1 | 33.8 29.9 | 36.0 32.4 | | 31.2 | | 34.9 31.3 | 31.3 | 32.2 28.5 |
| 2000 | 40.7 | 42.4 | 40°0 | 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 0 4 6 0 4 6 0 4 6 0 4 6 | 39.8 | 35.8 | 35.2 29.9 | 32.0 | 32.0 27.6 | 23.8 | 20.9 | 26.00 26.00 26.00 26.00 | 20.5 | 23.8 19.7 | | 23.2 | 20.5 | 20.1 |
| | 27.1 | 28.3 | 33.9 | 3 8 | 27.2 | 26.7 | 22,3 | 19.1 | 21.4 | 19.3 | 15.3 | 12.0 | 15.7 | | 11.4 | ٠.۵ | 14.7 | 12.0 | 15.1 |
| (10000 | 22.7 | 23.6 | 29.6 | 24.7 | 22.8 18.1 | 22.5 | 17.7 | 14.3 | 16.3 | 15.4 | 11.1 | 7.9 | 11.4 | 7.9 | 7.2 | 9.6 | 10.5 | 4°8 | 4.0 |
| (25000 (25000 | 12.8 7.2 1.6 | 13.3 7.5 1.2 | 19.8 14.0 7.3 | 14.9 9.2 7.5 | 12.9 7.2 9. | 12.9 7.1 | 2.2 | * * | 6.1 | 9.0 7.0 | 2.1 | | 1.7 | | | | 1.3 | | • |
| | | | | | | | , | | | | | | | | ı | | | | |

| (TABLE: | TONE-C | TONE-CORRECTED, A-WEI | E0, A- | יטו | HTED SVERALL | • | SOUND LEVEL |) | (DBA) | | | | | | |) IDENTI | IDENTIFICATIONS OMEGA 8.2 | I ON S | |
|--------------------|--------------------------------------|-----------------------|-----------|---------|----------------------|--|----------------------|-----------|------------------|------------|--|---------------------------------------|-------|-------|------|---|--|------------------------|--------------|
| | AS A F | FUNCTION | P. | ANGLE A | 2 | DISTANCE | FROM S | SOURCE | | | | | | | |) TESI | TEST 79-738-001 | 39-91 | |
| NOIS | RCE/SU AIRCRA -25 SU IELD N | BJECT # | THE OR | | OPERATIONS IDLE P 65 | RATION: IDLE POWER (65 % N2 448 FTIT | MER (6 N2 FTIT | (65% RPH) | LBS/HR | E 6 | METEOROLOGY TEMP BAR PRES REL HUMI DELTA N = | v a a | "2"- | F X X | | AIRCRAF OPERATI PROFILE 26 NOV | AIRCRAFT CODE 7 OPERATION CODE 6 PROFILE VERSION 28 NOV 79 PAGE 61 | CODE CODE ERSION | 736 00113 |
| (DISTANCE (FEET) | 0 | 97 | 20 | 36 | 3 | 3 | 99 | 0,2 | ANGLE | 108 | EGREES) 160 | 110 | 120 | 130 | 140 | 150 | 168 | 170 | 160 |
| 200 | 82.0 | 84.6 | 86.9 | | 82.1 | 80.1 | 77.0 | 79.5 | 82.9 | 71.7 | 66.9 | 67.2 | 68.2 | 65.7 | 62.2 | 63.1 | 66.5 | 61.0 | 62.8 |
| (250 | 79.8 | 82.3 | 84.6 | | 6.62 | 77.8 | 74.7 | 77.3 | 80.7 | 69.5 | 64.7 | 65.0 | 66.0 | 63.5 | 60.1 | 68.9 | 64.4 | 58.8 | 68.7 |
| 315 | 77.5 | 80.0 | 62.3 | | 77.6 | 75.6 | 72.5 | 75.6 | 78.4 | 67.3 | 62.5 | 62° 8 | 63.8 | 61.3 | 57.9 | 56.0 | 62.2 | 56.7 | 50.5 |
| | 15.1 | 2.5 | 6 ; | | 120 | 73.3 | 1.07 | 9.57 | • | 200 | 20 | 4 . | 61.5 | 29. | 23. | , 0 , 0 , 0 | | • | , oo |
| | 7.50.7 | 72.3 | 75.0 | 7 ° 6 ' | 0 ° 7 / | 7 9 9 | 55.2 | 67.5 | 73.0 | 0 4 0 4 | 3.7° | 30.1 55.5 | 55.4 | 56.7 | 5.5 | 10° | 2 C C C C C C C C C C C C C C C C C C C | 25.54 | 51.9 |
| 909 | 67.5 | 69.6 | 72.4 | | 67.7 | 65.8 | 62.5 | 64.6 | 68.3 | 57.5 | 52.9 | 52.9 | 54.1 | 51.7 | 48.5 | 49.7 | 52.8 | 47.5 | 49.6 |
| : | | , | | | | , | | , | 4 | i | 1 | | i | | | | i | • | • |
| 1000 | 64.7 | 66.7 | 9.6 | | 6 . 9 | 63.0 | 29.7 | 61.9 | 65.4 | 24.0 | 50.5 | 20. | 51.4 | 0.64 | 45.9 | 47.1 | 20.5 | 42. | 7. |
| 1250 | 61.7 | 63.6 | 66.0 | | 61.9 | 2.09 | 26.8 | 50 to 00 | 62.3 | 51.0 | * | 47.2 | 9.0 | 46.1 | 100 | * | * | 2.54 | n • • • • |
| 1000 | , v , v | 56.8 | 9 20 | 58.7 | 0 0 0 0 0 4 | 24.0 | 50.0 | 51.B | יי פיי פיי | 20 0 | , t | • • • • • • • • • • • • • • • • • • • | * 20° | 39.7 | 37.0 | 38.6 | 11 | 36.6 | 38.3 |
| (2500 | 51.6 | 53.0 | 57.3 | | 51.9 | 50.6 | 46.8 | 47.8 | 51.3 | 42.2 | 37.9 | 36.9 | 39.1 | 36.2 | 33.7 | 35.4 | 38.8 | 33.5 | 34.9 |
| (3150 | 47.8 | 49.1 | 53.9 | | 4 8. 1 | 47.1 | 43.1 | 43.4 | 6.94 | 38.7 | 34.4 | 33.0 | 35.6 | 32.4 | 30.1 | 32.0 | 34.4 | 30.1 | 31.1 |
| 8994 | 43.1 | 44.3 | 4 % | | 43,3 | 45.5 | 38.4 | 37.9 | 41.2 | 34.1 | 30.0 | 28.0 | 31.0 | 27.6 | 25.8 | 27.8 | 29.9 | 26.1 | 26.5 |
| 2000 | 37.9 | 39.2 | 4.4.4 | | 30.1 | 37.4 | 33,2 | 31.9 | 35,0 | 29.5 | 25.2 | 22.7 | 26.2 | 22.6 | 21.2 | 23.3 | 25.1 | 21.5 | 21.7 |
| 6300 | 32.5 | 33.8 | 39.2 | 2 to 8 | 32.7 | 32.0 | 27.9 | 25.6 | 20.4 | 24.1 | 20.5 | 17.3 | 21.0 | 17.3 | 16.3 | 19.5 | 20.8 | 16.8 | 16.7 |
| 0000 | 27.7 | 28.8 | 34.5 | ര് | 27.8 | 27.4 | 22.9 | 19.8 | 25.2 | 19.9 | 15.8 | 12.6 | 16.3 | 12.7 | 11.8 | 14.1 | 15.3 | 12.4 | 12.6 |
| 1000 | 22.7 | 23.6 | 29.6 | | 22.8 | 22.5 | 17.7 | 14.3 | 16.3 | 15.4 | 11.1 | 7.9 | 11.4 | 7.9 | 7.2 | 9.6 | 10.5 | 7.8 | 9.6 |
| (12500 | 18.0 | 18.7 | 25.0 | | 10.1 | 17.9 | 12.9 | 9.4 | 11.3 | 11.2 | 6.7 | 3.7 | 6.7 | 3.5 | 2.8 | 5.0 | 9 •9 | | •• |
| 16000 | 12.8 | 13.3 | 19.8 | | 12,9 | 12.9 | 7.7 | ÷. | 6.1 | 9•9 | 2.1 | | 1.7 | | | * | 1.3 | | • |
| 20000 | 7.2 | 7.5 | 14.0 | 8 | 7.2 | 7:1 | 2.2 | | • | 2.0 | | | | | | | | | |
| 25000 | 1:0 | 1.2 | 2.3 | | 6 | • | | | | | | | | | | | | | |
| . | | | | | | | | | , | | | 1 | | | | | | | |

| | | DISTANCE | , | | | EET | i | | | | | | | | | | | | | | | TEST | OMEGA 6.2 TEST 79-736-00 | 79-736-001 | 001 |
|-----------------------|---|--------------------------|--------------|-----|---|-----|--------|--|--|------|-------------------------|------|------|------|---|--------------|--------|------------------------|-------|------------|---|---|---|------------|-----------------------------|
| NOISE S PAR PAR | E SOURCE/SUBJECT: F-16 ALCRAFI IN THE AFJA-25 SUPPRESSOR FAR-FIELD NOISE | CCRAFT CCRAFT SUPP | T IN PRES | SOR | | | OPER. | NOTI PER PER PER PER PER PER PER PER PER PER | COPERATIONS COPERA | (65% | (65% RPH) 850 LBS/HR | 8S/H | α | HET. | HETEOROL TEMP BAR BAR DELTA N | PRES HUMI | 000 | = 59 =29.92 = 70 | Z | 5 | | A I R C C C C C C C C C C C C C C C C C C | AUGU WI AIRCRAFT CODE & PROFILE VERSION 26 NOV 79 PAGE J1 | _¥> 2 3 | DE 736 DE 88113 ION A |
| | i ` | | | | | | PEPNLY | - | | | | | AEAL | | | | | | A = 1 | T=ALT | | | | | |
| | | • | | | | | | | | | | | | | • | | | | • | •• | | • | | | |
| | | • • | • | • | • | • | • • | • | • | • | • | • | • | • | • | • | • | • | : | • - • | • | • • | • | • | • |
| | 7 | • | | • | | | | | • | | • | | • | | • • | | | • | | ~ · | _ | • • | | • | • • |
| | 50 . | • • | | • • | | | | | | | | | • • | | • • | | - | | | ۲. | - | • • | | ٠. | • • |
| | 30 | • • | • | • | • | • | • | • | • • | • | • | • | • | • | • • | • | • | • | • | « | • | • • | • | • | • • |
| | 3 | • • | | •• | | | | | | | | | • • | | • • | | | | ⋖ | • ⊢ | | • • | _ | ۵ | • • |
| ∢ | 90 | • • | | •• | | | | | | | | | • • | | • • | | | | _ | • • | | • • | ٥ | | •• |
| 2. | | • | | • | | | | | | | • | | • | | • | | • | • | - | • | | • • | | | |
| ب. و | 3 | •• | • | • | • | • | • • | • | • | • | • | • | | • | • • | • | • | x | • | • | • | • | • | • | • |
| W | 2 | • • | | • 1 | | | | | • | | • | | • | | • | | | • | - | • | | • | Q. | | • |
| ₩: | 90 | • • | | • • | | | | | • • | | | • | • • | | • • | | - | | • | ٠. | | • • | • | _ | • |
| Z | 96 | •• | • | • | • | • | • | • | • | • | • | • | • | • | • • | • | . A. T | • | • | • | ď | • • | • | • | • |
| 0 u | 900 | • | | • | | | • | | • | | • | | • | | • | - | | • | | • 0 | | • | | | • • |
| . 0 | 3 | • • | | • • | | | | | | | | | • • | | • • | • | | | | ٠. | | • • | | | |
| œ 4 | 110 | • • | | • • | | | | | • | | • | | • | | • • | ⊢ | | • | | ٠. | | • 1 | | | • |
| . W | 120 (| • | • | • | • | • | • | • | • | • | • | • | • | • | • | ÷ | • | • | • | å | • | • | • | • | • |
| 'n | 130 | •• | | • • | | | | | | | • • | | • • | | • ∢ | - | | | | ٠.: | | • • | | | • • |
| | 140 | • • | | • • | | | | | | | | | • • | | • ► | | | | ۵ | • • | | • • | | | •• |
| | 150 | | • | | • | • | | • | • | • | • | • | • | • | · · · | • | | | • | • | | • | • | • | • |
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| | 7 191 | • • | | • • | | | | | | | | | • • | | • | - | | | | ٠. | | • • | | | • • |
| | 170 | • • | | • • | | | | | | | | | • • | - | A T. | | - | a. | | • | | • • | | | • |
| | 190 | •• | • | • | • | • | • | • | • | • | • | • | • | • | • • • | • | • | • | • | • | • | • | • | • | • |
| | _ ` | • } | | • | | 1 | | | • | | • | | • | | • | | 1 | | | • | | • | | | |
| | - | | | • | • | | 00 | | | | 4 | | | | | | | 4 | | • | | a | • | • | |

| TABLE: NOW 1/3 1/3 DIS | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 250 | PRES FEET | | SURE LEVEL | (90) | | | | | | | | | ~ ~ | OMEGA TEST 7 | 8.2 9-738 | -001 | |
|------------------------------|--|----------------------|--------------|--------------|------------|--------|----------|------------|------------|-----------------------------------|---|------------|------------------------------|------------|-----|---|--------------|------------------|-------------------|
| 01SE F-16 AF32 FAR- | SOURCE/SUBJECT AIRCRAFT IN T A-25 SUPPRESSO FIELD NOISE | - - | | OPERA SER | 1 4 4 | ENGINE | | SUPPRESSED | 6 | METE TEI BAI REI DELT | ETEOROLOGYS TEMP BAR PRESS REL HUMID | 1 1 1 1 0 | 59 6 79 7 70 7 0 08 | IN HG | | AIRCRAF OPERATI PROFILE PAGE (| 2 4 E O H | CODE CODE (RSION | 738 00119 A |
| BAND CENTER FREQ (HZ) | | 27 | 20 | 30 | 9 | 50 | 9 | ANG 70 | GLE (C | 0E62E | ES) 100 1 | 97 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| ď | 8.1 | 82 | 76 | 76 | 7.3 | | K. | 7 | 75 | 7.3 | 7.2 | 7.3 | 7 | 7.6 | 7. | 7.3 | 74 | 7.8 | 77 |
| 9 19 | | 81 | 2.6 | 92 | 7. | | 81 | : 12 | 23 | 7. | 1. | 77 | 1.62 | 80. | 9. | 2 8 | 77 | 8 2 | 78 |
| | 82 | 14 | | 62 | 78 | | 80 | 69 | 69 | 72 | 15 | 75 | 75 | 78 | 6.2 | 79 | 4 | 7.8 | 78 |
| 100 | 9 | 82 | 78 | 92 | 72 | | 7.8 | 7.1 | 7.0 | 7.1 | 73 | 92 | 25 | 15 | 11 | 22 | 92 | 92 | 79 |
| 125 | (3 8 0 | 83 | | 22 | 72 | | 15 | 69 | 70 | 71 | 7.0 | 22 | 42 | 72 | 20 | 11 | 74 | 22 | 79 |
| 166 | # (80 (| 4 0 | | 5 1 | 7. | | 4 | 29 | 29 | 29 | 69 | 7. | 72 | 0 ; | 29 | 7 | 0 (| 8 9 | 7 |
| 200 | £ ^ | 200 | 2 2 | 0 K | 1 9 | . y | 7.5 | 6 7 | 0 4 0 4 | , o | 7 6 | 6 6 | 2 4 2 4 | 0 4 0 4 | 2 C | D / 9 | 6 | 0 4 0 4 | 9 |
| 315 | : 2 | 2 | | 9 | 65 | | 68 | 62 | 62 | 62 | 62 | 6 6 | 61 | 62 | 62 | 6 | 9 | Q | 67 |
| 400 | 7.7 | 72 | | 68 | 65 | | 99 | 29 | 19 | 9 | 9 | 28 | 69 | 28 | 61 | 62 | 9 | 9 | 61 |
| 540 | 69 | 20 | 68 | 29 | † | | 99 | 61 | 53 | 58 | 26 | 52 | 22 | 52 | 26 | 61 | 25 | 54 | 5 |
| 630 | 68 | 99 | 69 | 68 | 9 | | 65 | 61 | 23 | 25 | 52 | 55 | 96 | 25 | 53 | 99 | 24 | 20 | 20 |
| 900 | 71 | * 2 | 92 | 73 | 68 | | 70 | 63 | 61 | 61 | 09 | 26 | 9 | 52 | 54 | 23 | 52 | 51 | 53 |
| 1000 | 69 | 72 | 11 | 20 | 7 9 | | 69 | 9 | 63 | 9 | 9 | 24 | 29 | 63 | 53 | 25 | 24 | 51 | 27 |
| 1250 | 65 | 68 | 99 | 29 | 61 | | 99 | 63 | 60 | 59 | 58 | 2 2 | 60 | 52 | 21 | 54 | 25 | 47 | 47 |
| 1600 | 68 | 7. | 71 | 20 | 99 | | 71 | 99 | 2 2 | 65 | 65 | 58 | 65 | 9 | 53 | 21 | 50 | 4 4 | 48 |
| 2000 | 29 | 20 | 69 | 68 | 63 | | 71 | 99 | † | 61 | 23 | 56 | 63 | 22 | 21 | 42 | 46 | 45 | 4 |
| | †9 | 69 | 99 | 29 | 61 | | 69 | 99 | 63 | 9 | 25 | 25 | 9 | 2 6 | 4 | 45 | Ę | M 4 | \$ |
| 3150 | 65 | 69 | 29 | 99 | 60 | | 68 | 65 | 63 | 61 | 5 5 8 | 25 | 62 | 58 | 48 | 1 4 | 43 | 45 | 45 |
| 9994 | 49 | 69 | 29 | 99 | 9 | | 29 | 63 | 6 2 | 9 | 26 | 21 | 6 0 | 25 | 47 | 7 | 43 | 45 | \$ \$ |
| 9 | 69 | 20 | | 69 | 63 | | 70 | 99 | 29 | 63 | 58 | 53 | 99 | 61 | 64 | 42 | 4 | Ę | 4 |
| € 30 € | 63 | 69 | | 65 | 9 | | 29 | 63 | 63 | 25 | 53 | 84 | 63 | 22 | 42 | 45 | 45 | 42 | 4 |
| 9000 | 20 | 65 | 6 2 | 29 | 26 | 25 | 61 | 58 | 55 | 53 | 20 | 4 5 | 51 | 24 | 4 | 4 | 45 | 45 | 45 |
| 1000 | 61 | 29 | | 49 | 23 | 55 | | 59 | 25 | 24 | 20 | 4 8 | 51 | 9 | 4 | 4 | 4 | 4 | \$ |
| OVERALL | 76 | 35 | 8 | 98 | 83 | 81 | 80 | 80 | 81 | 81 | 82 | 82 | 83 | 9 (| 48 | 85 | 4 | 85 | 86 |
| | | | | | | | | | | | | | | | | | | | • |

|] | · | - | 2004 | ~ ~ ~ ~ | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
|---|--|---------------------|---|---------------------------------------|--|----------------------------------|
| | DE 738) DE 80119) ION A) | 180 | 84.0 | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | |
| DENTIFICATIONS OMEGA 8.2 TEST 79-738-001 | CODE CODE ERSION | 170 | 887. 78.00 18.00 18.00 | 73.0 | 1000 to 1000 t | |
| DENTIFICATION ONEGA 8.2 TEST 79-738-0 | TION TION ILE VE | 160 | 85.1 82.7 80.2 77.8 | 200 | ###################################### | |
| IDENTI OMEGA TEST | AGERAFI CODE 7 OPERATION CODE 8 PROFILE VERSION 26 NOV 79 | 50 | 3 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | ###################################### | |
| | | Ä | | | ************************************** | |
| | 9 | 977 | 85.4 88.0 78.5 | 722 | 7 | |
| | Z Z | 130 | 88.7 86.3 83.8 | 78.5 75.7 72.7 | # 10 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | |
| • | = 59 =29,92 = 70 0 08 | 120 | 92.0 89.7 87.2 84.6 | 61.9 79.1 76.6 | 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| | SS OI | 110 | 86.0 83.6 78.7 | N 0 L | | |
| | A B E E | : | 60000 | 75.5 7 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| | METEC PELT | (DEG4EES) 90 100 | | | | |
| | 1 ~ ~ ~ ~ ~ | 2 | 89.08 | 22 | Nawarananan K | |
| | ESSE 0) | ANGLE 86 | 92.4 | 82.3 79.4 76.3 | 1 | |
| SOURCE | SUPPR | 2 | 92.7 94.3 87.9 | 88.3 77.4 | 20000000000000000000000000000000000000 | • |
| FROM SC | ENGINE RUNUP (SUPPRESSED) | 3 | 97.7 95.3 92.8 | 87.6 85.0 82.2 | 2 3 4 4 5 5 5 5 5 6 5 6 5 6 6 6 6 6 6 6 6 6 | 18.7 |
| • | 1 T | 20 | 88 88 88 88 88 88 88 88 88 88 88 88 88 | 70.5 | 23.45.55.43.66.66.66.66.66.66.66.66.66.66.66.66.66 | € • € |
| 18) DISTANCE | Ų. | 3 | 0 | 400 | | 8 . |
| | | 36 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | T 41 M | a populatoro u populațe populațe populațe | 6 9 |
| LEVEL | | | | | | 900 |
| OISE ON OF | THE | 56 | 96.5 96.2 95.7 | | | 15. |
| IVED NOISE L | BJECTS FT IN PPRESS | 107 | 100.2 97.9 95.6 93.2 | 90.7 88.1 85.4 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 27.8 |
| R S S S | | 7 | 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 84.7 84.7 81.8 | # #################################### | 25°5 9°6 |
| . | 018 | DISTANCE (FEET) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 12550 12550 2250 2250 2250 2250 3250 560 560 560 560 560 560 560 560 560 5 | 12560 16460 25014 25000 |

| NOISE SOURCE/SUBJECT! F-16 AIRCRAFT IN T | AS A FUNCTION | | 9 | NGLE | AND DIS | DISTANCE | FROM SC | SOURCE | | | | | | | | OMEGA | OMEGA 8.2 TEST 79-738-001 | -001 | |
|---|---|----------------------|--------------|--|---|----------|--------------|--------------|-------------|------|-------------------------------------|---|-------------------------|--------------|--------------|--|------------------------------|---------|---------------------|
| AF 324 FAR-F | E SOURCE/SUBJECT! F-16 AIRCRAFT IN THE AF32A-25 SUPPRESSOR FAR-FIELD NOISE | BJECT IN FORESS OISE | 3 × | | OPERATIONS 80% RP SINGLE GROUND | į E | ENGINE | (SUPPRESSED) | ESSED) | 2 2 | METEOROLOGY: TEMP BAR PRES REL HUHI | vai | = 59 = 29,92 = 70 | IIX K | | AIRCRAFT OPERATIO PROFILE 26 NOV 7 PAGE E2 | 10 2 6 V | CODE 0. | 738 00119 i A |
| (OISTANCE 0 10 | | 10 | 92 | 9E | 9 | 50 | 99 | 92 | ANGLE 03 | 906 | GREES) | 110 | 120 | 130 | 140 | 150 1 | 160 1 | 170 | 180 |
| 200 | 97.7 | 101.8 | 100.0 | ė, | | 90.0 | 99.1 | 93.8 | 94.1 | 91.4 | 9.06 | | 94.2 | 91.1 | w. | w . | | | 87.8 |
| 315 | 93,0 | 94.5 | 96.0 | 96.1 93.6 | 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0 | 85.2 | 96.7 94.3 | 91.4 | 91. 89.3 | 85.6 | 86.1 | 84. 6 82. 3 | 91.6 89.3 | 86.2 | 84.1 81.6 | | 80.2 8 | | 83.1 |
| 90 | 90.9 | 94.8 | 93.4 | # | 85,9 | 82.7 | 91.7 | 86.6 | 86.7 | 84.0 | 63.7 | 79.9 | | 83.7 | ~ | | | | 60.7 |
| 5.20 6.30 | 60 60 60 60 60 60 60 60 60 60 60 60 60 6 | 92.3 | 90.8 | 8 60 50 50 50 50 50 50 50 50 50 50 50 50 50 | 84.7 | 80.0 | 86.4 | 81.4 | 84. B | 81.5 | 81.2 78.6 | 74.3 | 84.0 81.2 | 81.0 | 76.6 | 77.8 7 | | 76.6 | 78.1 |
| 830 | 82.7 | 87.0 | 64.9 | 3 | 78.0 | 74.2 | 83.6 | 78.5 | 78.8 | 76.3 | 15.9 | 71.8 | 78.1 | 75.1 | N | | | | 72.4 |
| 1000 | 79.8 | 84.1 | 82.1 | ď | 75.2 | 71.3 | 80.7 | 75.5 | 74.7 | 73.1 | 73.1 | 68.7 | 74.8 | 72.0 | 68.4 | | | | 59.5 |
| 1250 | 7.97 | 61.6 | 79.1 | ŝ | 72,1 | 68.3 | 77.6 | 72.3 | 71.5 | 74.1 | 70.1 | 65, 3 | | 68.8 | 6 | 9 | | | 65.6 |
| 1600 | 73.4 | 77.7 | 76.0 | ň. | 6.0 | 65.0 | 74.3 | 66.6 | 68.1 | 66.6 | 66.8 | 61.9 | | 65.4 | ٥. | ۰. | | | 61.7 |
| 2500 | 65,0 | 70.2 | 6.69 | 66.1 | 61.1 | 57.3 | , ee , | 50.0 50.0 | 0 to to | 58.7 | 2 C | 2 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | 64.1 | 57.0 57.0 | 51.7 | 53.5 | 50.4 | 50.5 | 52.2 |
| 3150 | 61.5 | 65.8 | 64.8 | 4 | 26.0 | 52.8 | 61.9 | 56.1 | 55.5 | 54.1 | 54.2 | 2.24 | | 51.7 | . . | . 17 | | | .6 |
| 0004 | 56.6 | 60.5 | 60.0 | 57.1 | 51.1 | 47.0 | 56.7 | 50.5 | 49.6 | 47.8 | 47.7 | 40.8 | | 45.3 | | ₩. | | | 39.0 |
| 5000 | 51.0 | 24.7 | 54.4 | ÷ | | 40.6 | 50.5 | 43.7 | 45.6 | 40.7 | 40.4 | 31.7 | | 37.5 | | | | | 28.5 |
| 6330 | | | | 'n | 38.3 | 33.5 | 43.0 | 36.2 | 34.7 | 32.6 | 31.9 | 20.5 | 32.9 | 29.0 | + | _ | | | 16.4 |
| 3 9 9 | 36.8 | 42.9 | 4 2.5 | 39.2 | | 26.6 | 36.6 | 27.9 | 24.7 | 21.7 | 18.9 | 8.7 | 22.2 | 18.5 | m | • | 7.5 | | m |
| 10000 | 31.6 | 36.0 | 35.3 | ö | 23.8 | 17.3 | 29.0 | 16.3 | 10.1 | 7.3 | 6.8 | | 8.9 | 8.2 | | 6.1 | | | |
| 12500 | 22.5 | 27.8 | 27.6 | 53.9 | | 8.3 | 18.7 | • | | | | | | | | | | | |
| 20000 | F. | 130 | 12°4 | š | | | • | | | | | | | | | | | | |
| 25808 | | | | | | | | | | | | | | | | | | | |

| Noony Promy Promy of the of the off | (TABLE: | A- WE IG | HTED G | A-WEIGHTED OVERALL | SOUND | LEVEL | (DBA) | | | | | | | | | |) IDENTI | DENTIFICATION | INOI | |
|--|-------------------|--------------------|-----------------|--------------------|-------|--------------------|-----------------|--------|--------|---------|-------|--------------|----------------|-------|------------|----------|----------------------|------------------|--------|------|
| Fare-Field Fare-Field Fi | | AS A F | UNCTIC | P | 14.1 | SIO ON | | | OURCE | | | | | | 1 | | TEST | 7-67 | 38-001 | |
| FAR-FIELD NOISE | NOIS | URCE/SU AIRCRA | BLECT 8 | 1 1 1 | | OPERA 8 | TION: DX RPH | | | | | TEOROL | , 06 Y I | | L. | |) AIRC | RAFT | CODE | 38 |
| The control of the co | (FAR-1 | A-25 SU FIELD N | PPRESS IOISE | 808 | | иo | INGLE | CNGINE | (SUPPR | ESSE J) | ~ ~ ~ | _ | PRESS HUNIO | = 29. | Z H X | | PROF 28 N PAGE | TLE VE 10V 79 | RSION | ⋖ |
| 82.8 83.9 82.4 77.4 73.5 82.5 76.3 77.2 74.9 73.6 70.2 76.1 76.9 68.6 67.1 67.1 67.1 77.9 83.3 83.3 83.8 83.8 83.8 83.8 83.8 83 | DISTANC (FEET) | | 10 | 20 | 30 | 9 | 50 | 3 9 | 7.6 | ANGLE | 1 - 5 | REES) | ! . | 120 | 130 | 140 | 1 10 | 160 | 170 | 180 |
| 79.9 63.3 61.8 60.2 75.2 71.3 60.3 76.1 74.9 72.6 71.4 66.1 73.9 70.7 66.5 65.0 67.1 67.5 67.1 75.6 81.3 75.5 71.4 66.1 75.5 71.4 66.2 65.2 65.2 65.2 65.2 65.2 65.2 65.2 | 500 | 82.0 | 85.5 | 83.9 | 82.4 | | 73.5 | 82.5 | 78.3 | | • | 73.6 | 70.2 | 76.1 | 72.9 | 8 | | 2.69 | 69.1 | 70.8 |
| 75.6 78.9 77.5 75.0 73.4 68.5 64.6 75.7 71.4 71.2 68.1 67.0 63.6 65.9 63.9 66.1 65.3 65.4 63.0 65.0 65.0 65.3 65.4 63.0 65.0 65.0 65.0 65.3 65.4 65.0 65.0 65.0 65.0 65.3 65.4 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 | 250 | 79.9 | 83.3 | 81.8 | 80.2 | ů, | 71.3 | 80,3 | 76.1 | 74.9 | ~ | 71.4 | 68.1 | 73.9 | 70.7 | 66.5 | 69.6 | 67.1 | 67.1 | 68.7 |
| 73.3 76.5 75.0 73.4 68.5 64.6 73.3 69.0 67.2 65.7 64.7 61.5 66.9 63.9 66.1 63.3 60.8 60.8 60.8 73.3 76.5 75.0 73.4 68.5 64.6 73.3 69.0 67.2 65.7 64.7 61.5 66.9 63.9 66.1 63.3 60.8 60.8 60.8 71.8 71.8 72.6 73.0 66.1 62.3 70.9 66.5 65.2 63.2 62.3 59.2 64.3 61.5 57.9 65.1 59.8 58.8 58.8 60.8 60.8 71.8 71.8 71.8 71.8 65.8 66.8 63.8 68.3 63.9 62.2 63.2 62.3 59.2 64.7 59.0 55.6 58.8 58.8 58.8 58.8 65.3 65.8 65.8 65.8 65.8 65.8 65.8 65.8 65.8 | 415 | 75.6 | 78.9 | 79.5 | 7 5.7 | i d | 69.1 66.9 | 78.8 | 73.8 | 78.5 | • e | 67.0 67.0 | 63.8 | 69.3 | 66.2 | 62.3 | 65.4 | 63.0 | 63.0 | 64.5 |
| 73.9 74.1 72.6 71.0 66.1 62.3 70.9 66.5 65.2 63.2 62.3 59.2 64.3 61.5 57.9 61.0 58.5 58.5 68.5 68.1 68.3 68.3 68.3 68.3 68.7 61.0 59.8 68.3 68.7 61.0 59.8 58.5 71.0 68.7 71.0 61.0 71.0 61.0 71.0 61.0 71.0 61.0 71.0 61.0 71.0 71.0 71.0 71.0 71.0 71.0 71.0 7 | 200 | 7 % 3 | 75.5 | 75.0 | 4 % ~ | 8 | 64.6 | 73.3 | 9.69 | 67.3 | 3 | 54.7 | 61.5 | 66.99 | 63,9 | 60.1 | 63.3 | 60.8 | 60.6 | 62.5 |
| 66.6 69.0 67.6 66.0 61.1 57.3 65.7 61.2 59.8 58.0 57.3 54.1 59.0 56.7 61.7 59.0 55.6 56.6 56.2 56.1 56.5 65.0 63.4 56.5 54.7 62.9 58.4 57.0 55.2 54.6 51.3 56.1 53.6 50.4 53.5 50.9 50.7 53.5 50.5 53.5 50.0 53.5 50.0 53.4 55.5 54.7 62.9 58.4 57.1 55.2 54.6 51.3 56.1 53.6 50.4 53.5 50.9 50.7 57.8 52.0 60.1 55.5 54.0 52.3 51.8 48.4 53.1 50.7 47.5 50.6 48.0 47.7 44.9 57.0 57.1 57.1 57.2 50.0 47.5 50.0 47.5 50.0 47.7 44.1 47.7 44.0 57.0 57.0 57.0 57.1 40.7 57.1 40.5 51.0 47.7 44.1 47.7 44.1 47.7 44.1 47.7 44.1 47.7 57.1 40.5 51.0 47.2 50.0 47.2 5 | (630 | 70.9 | 74.1 | 72.6 | 71.0 | ڨ | 62.3 | 70.9 | 66.5 | 65.2 | 8 | 62.3 | 59.5 | 64.3 | 61.5 | 57.9 | 61.0 | 58.5 | 58.5 | 5.09 |
| 66.6 69.0 67.6 66.0 61.4 57.3 65.7 61.2 59.8 58.0 57.3 54.1 59.0 56.4 53.1 56.2 57.7 57.5 50.9 53.7 53.5 63.5 65.8 65.8 65.8 65.8 65.0 63.4 58.5 54.7 62.9 58.4 57.1 55.2 54.6 51.3 56.1 53.6 50.4 53.5 50.9 50.7 60.5 63.4 62.3 60.6 55.8 52.0 60.1 55.6 57.1 55.2 54.6 51.3 56.1 53.6 50.4 53.5 50.9 50.7 67.5 50.6 60.8 57.0 60.1 55.5 54.0 52.3 51.8 48.8 45.2 50.0 47.5 44.4 47.7 44.9 44.3 57.8 51.8 48.8 45.2 51.8 48.8 45.2 51.8 48.8 45.2 51.8 48.8 44.4 47.7 41.4 41.7 41.5 51.8 48.3 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 | 000 | 68.5 | 71.6 | 79.1 | 68.5 | m | 59.8 | 68.3 | 63.9 | 62.6 | ċ | 59.9 | 26.7 | 61.7 | 59.0 | 55.6 | 58.6 | 2 • 9 5 | 56.1 | 57.7 |
| 63.3 66.3 66.3 66.4 68.4 68.6 57.1 52.9 68.4 57.1 55.2 54.6 51.3 56.1 53.6 50.4 53.5 51.9 51.7 60.5 63.4 62.3 610.6 55.8 52.0 60.1 55.6 54.6 57.1 52.0 51.8 40.4 53.1 50.7 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.6 40.0 47.5 50.0 40.5 50.0 40.5 50.0 40.5 50.0 40.5 50.0 40.5 40.0 40.5 50.0 40.5 40.0 40.5 50.0 40.5 40.0 40.5 50.0 40.5 50.0 40.5 50.0 40.5 40.0 40.5 50.0 40.5 40.0 40.5 50.0 40.5 40.0 40.5 50.0 40.5 50.0 40.5 50.0 40.5 50.0 40.5 50.0 40.5 50.0 40.5 50.0 40.5 40.5 | 400 | 7 | 9 | 67.6 | ż | 1.1 | 57.3 | 65.7 | 61.3 | 9 | 6,0 | 57.3 | 5 t. 4 | 0.00 | 4.4 | | 56.2 | 57.7 | , L | 56.2 |
| 60.5 63.4 62.3 60.6 55.8 52.0 60.1 55.4 50.9 54.0 52.3 51.8 40.4 53.1 50.7 47.5 50.6 40.0 47.5 57.1 57.1 52.4 50.3 40.8 45.2 51.0 47.5 44.4 47.7 44.9 44.3 57.2 51.0 47.5 51.0 47.5 51.0 47.5 51.0 47.5 51.0 47.5 51.0 47.5 51.0 47.5 51.0 47.5 51.0 47.5 51.0 40.1 57.2 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0 | 1250 | 63.3 | 66.3 | 65.0 | 'n | , 0 , 0 , 0 | 24.7 | 62.9 | 58.4 | 57.0 | 55.2 | 24.0 | 51.3 | 56.1 | 53.6 | | 53.5 | 50.9 | 50.7 | 52.3 |
| 57.6 61.6 59.5 57.8 52.9 49.2 57.1 52.4 50.9 49.3 49.6 <th< th=""><th>1600</th><td>60.5</td><td>63.4</td><td>62.3</td><td>;</td><td>55.8</td><td>52.0</td><td>60.1</td><td>55.5</td><td>54.0</td><td>52.3</td><td>51.8</td><td>48.4</td><td>53.1</td><td>50.7</td><td>S</td><td>50.6</td><td>48.0</td><td>47.6</td><td>49.1</td></th<> | 1600 | 60.5 | 63.4 | 62.3 | ; | 55.8 | 52.0 | 60.1 | 55.5 | 54.0 | 52.3 | 51.8 | 48.4 | 53.1 | 50.7 | S | 50.6 | 48.0 | 47.6 | 49.1 |
| 54.4 57.2 56.6 54.8 49.9 46.2 53.9 49.2 47.6 46.8 41.8 46.6 44.3 40.9 44.4 41.4 40.5 51.9 40.5 51.8 40.9 44.4 41.5 40.5 51.8 40.5 51.8 40.8 51.8 40.8 51.8 40.8 51.8 40.8 51.8 40.8 51.8 40.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51 | 29 00 | 57.6 | 60.4 | 58.5 | | 52,9 | 49.5 | 57.1 | 52.4 | 50.9 | 49.3 | 6.8 € | | 50.0 | 47.5 | 4 | 47.7 | 6.44 | 44.3 | 45.8 |
| 51.6 53.6 53.6 66.6 46.6 42.9 50.4 45.7 44.1 42.6 42.1 36.1 43.1 40.7 37.1 40.8 37.5 35.4 47.5 35.4 47.5 35.4 47.5 44.2 47.5 47.5 47.5 47.1 40.7 37.1 40.8 37.5 35.4 47.5 35.4 47.5 47.5 47.5 47.5 47.5 37.6 37.6 37.6 37.6 37.6 37.6 37.6 37.5 37.6 37.5 37.6 47.5 37.6 37.6 37.6 37.7 24.0 20.2 27.2 27.2 38.2 34.6 41.9 39.2 34.7 34.2 36.2 37.5 37.5 37.5 37.5 24.7 24.0 20.3 24.7 27.2 28.5 37.8 35.7 34.6 41.9 39.2 27.2 37.9 28.6 27.1 29.6 25.1 24.2 26.0 24.4 24.7 24.7 27.2 29.2 27.2 27.2 27.2 27.2 27.2 27 | (2500 | 54.4 | 57.2 | 56.6 | ÷. | 6.64 | 7.94 | 53.9 | 7.64 | 47.6 | 46.0 | 45.6 | | 46.6 | £ 4 . W | σ. | 44.4 | 41.4 | 40.5 | 45.0 |
| 47.3 56.4 46.8 46.8 40.3 36.8 38.3 34.0 39.2 37.9 35.5 31.8 43.3 46.0 46.2 46.2 46.8 46.8 46.3 34.1 29.0 35.1 34.9 35.9 36.9 35.9 36.9 37.7 36.1 34.1 29.0 25.1 26.2 33.9 26.7 29.2 27.2 26.6 25.1 21.2 26.0 26.4 26.4 26.4 26.4 26.7 24.7 22.6 35.0 37.6 27.2 28.6 27.1 21.2 26.6 26.4 26.4 26.4 26.7 24.7 27.1 35.1 37.6 37.8 27.2 27.2 27.2 26.6 27.1 21.2 26.1 24.4 26.4 26.4 26.4 26.7 26.7 27.2 26.6 27.1 21.2 26.6 27.4 26.4 27.4 26.4 27.4 26.4 27.4 26.4 27.4 26.4 27.4 26.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 27.4 | 3150 | 51.6 | 53.8 | 53.6 | å, | 9 9 | 45.9 | 50.4 | 45.7 | 44.1 | 45.6 | 45.1 | | 4 30 | 40.7 | ~ | 6.04 | 37.6 | 36.4 | 37.8 |
| 38.9 44.6 6 40.9 39.9 34.7 31.2 36.2 33.5 31.5 30.1 29.6 25.2 33.5 28.7 24.0 26.7 24.7 22.6 23.5 37.8 35.7 31.6 27.2 28.6 27.3 25.6 25.1 21.2 26.0 24.4 20.4 24.7 21.2 19.4 20.7 33.0 33.3 33.2 26.2 23.8 22.2 28.8 20.4 17.0 21.3 19.8 16.3 15.0 12.9 16.8 17.5 16.1 22.8 23.1 22.8 28.8 28.8 28.8 28.8 28.8 28.8 28 | | \$ 1.00 P | 700 | , r | å | 4 6 6 6 7 | \$ U | 9 6 | 41.4 | 46.3 | 30.0 | 26.0 | 2 4 0 C | 39.5 | 37.0 | י יכ | 30.4 | 2000 | 31.0 | 35.2 |
| 35.0 37.5 37.8 35.7 30.6 27.2 33.9 28.6 27.1 25.6 25.1 21.2 26.0 24.4 20.4 24.7 21.2 19.4 20.7 33.0 33.2 26.2 25.2 25.8 22.2 23.8 22.2 20.8 20.4 17.0 21.3 19.8 16.7 12.9 16.8 17.5 16.1 25.8 21.2 28.2 28.3 26.2 21.3 18.9 15.1 13.2 18.8 13.1 11.6 10.6 10.3 8 8 11.3 10.2 9.2 12.6 9.9 9.5 16.3 18.0 16.7 14.7 10.6 7.9 13.3 7.3 6.0 5.3 5.5 4.9 6.6 6.0 5.6 8.4 6.2 6.3 11.4 13.1 10.5 8.6 4.9 2.5 8.0 11.3 10.5 2.5 2.3 2.2 4.3 2.6 3.1 | 6360 | 38.9 | 41.6 | 41.9 | ď | 34.7 | 31.2 | 36.2 | 33.2 | 31.5 | | 29.6 | 25.2 | 30.5 | 28.7 | | 28.3 | 24.7 | 22.6 | 23.8 |
| 30.7 33.0 33.3 31.2 26.2 23.0 29.2 23.8 22.2 20.8 20.4 17.0 21.3 19.8 16.7 20.8 17.5 16.1 26.1 26.2 28.3 26.2 21.3 18.3 24.1 18.6 17.0 15.8 15.4 12.9 16.3 15.0 12.9 16.8 13.7 12.8 21.2 23.1 22.8 20.7 16.1 13.2 18.8 13.1 11.6 10.6 10.3 8.8 11.3 10.2 9.2 12.6 9.9 9.5 16.3 18.0 16.7 14.7 10.6 7.9 13.3 7.3 6.0 5.3 5.5 4.9 6.6 6.0 5.6 8.4 6.2 6.3 11.4 13.1 10.5 8.6 4.9 2.5 8.0 1.5 .7 .4 1.1 1.3 2.5 2.3 2.2 4.3 2.6 3.1 | 0008 | 35.0 | 37.5 | 37.8 | 'n | 30.6 | 27.2 | 33.9 | 28.6 | 27.3 | | 25.1 | 21.2 | 26.0 | 24.4 | | 24.7 | 21.2 | 19.4 | 20.6 |
| 30.7 33.0 33.3 31.2 26.2 25.0 29.2 23.8 22.2 20.8 20.4 1/.0 21.3 19.6 16.7 20.8 17.5 16.1 26.1 23.2 23.3 31.2 26.2 21.3 18.3 26.2 21.3 18.3 26.2 21.3 18.0 17.0 15.8 15.0 15.9 16.3 15.0 12.9 16.8 13.7 12.8 21.2 21.2 23.1 22.0 20.7 16.1 13.2 18.0 13.1 11.6 10.6 10.3 8.9 11.3 10.2 9.5 12.6 9.9 9.5 16.3 18.0 16.7 14.7 10.6 7.9 13.3 7.3 6.u 5.3 5.5 4.9 6.6 6.0 5.6 8.4 6.2 6.3 11.4 13.1 10.5 8.6 4.9 2.5 8.0 1.5 .7 .4 1.1 1.3 2.5 2.3 2.2 4.3 2.6 3.1 | | | 1 | | | | 1 | | | | , | ; | | 1 | 1 | | | | | |
| Cb.1 20sc 20s.3 20s.2 21.3 10s.3 24.1 10s.6 17.0 15.8 12.4 12.9 15.3 15.0 12.9 15.8 13.7 12.8 22.0 23.1 22.0 20s.7 12.1 13.2 10s.6 10s.7 10s.6 10s.7 10s.7 10s.6 10s.7 10s.7 10s.6 10s.7 10s.6 7.9 13.3 7.3 6.4 5.5 4.9 6.6 6.0 5.0 6.6 6.0 6.6 6.0 5.6 6.1 11.4 13.1 10.5 8.6 4.9 2.5 8.0 1.5 5.7 6.0 1.1 1.1 1.3 2.5 2.3 2.2 4.3 2.6 3.1 | 10000 | 30.7 | 33.0 | 33° | ä, | | 23.0 | 29.5 | 23.8 | ď, | ė. | 20.4 | | 21.3 | 19.6 | 16.7 | 20.8 | 17.5 | 16.1 | 17.4 |
| 21.2 23.1 22.8 20.7 16.1 13.2 18.8 13.1 11.6 10.6 10.3 8.8 11.3 16.2 9.2 12.6 9.9 9.5 16.3 16.1 16.7 14.7 10.6 7.9 13.3 7.3 6.u 5.3 5.5 4.9 6.6 6.0 5.6 6.0 5.6 6.4 6.2 6.3 11.4 13.1 10.5 8.6 4.9 2.5 8.0 1.5 .7 .4 1.1 1.3 2.5 2.3 2.2 4.3 2.6 3.1 | 12500 | 26.1 | 28.2 | 28.5 | ، ق | | 18.3 | 24.1 | 18.6 | : | ŝ | 15.4 | | 16.3 | 15.0 | 12.9 | 9 9 | 13.7 | 12.8 | 14. |
| 00 16.3 18.0 15.7 14.7 14.6 7.9 13.3 7.3 5.0 5.5 5.5 4.9 5.5 5.6 5.4 5.2 6.3 6.3 10.3 10.5 6.6 4.9 2.5 8.0 1.5 .7 .4 1.1 1.3 2.5 2.3 2.2 4.3 2.6 3.1 | 16930 | 21.5 | 23.1 | 22.8 | å. | | 13.2 | 9.0 | 13.1 | 11.6 | • | 10.3 | | 11.3 | 16.2 | 2.6 | 12.6 | 6 | 6.0 | 10.9 |
| 00 11.04 13.1 10.5 6.6 4.9 2.5 6.0 1.5 .7 .4 1.1 1.3 2.5 2.3 2.2 4.3 2.6 3.1 | 20002 | 16.3 | 18. | 16.7 | , ۋ | | 6. | 13,3 | ٠ ۲ | ء مُ | 2.0 | | | 9 0 | 9 | 2.0 | 4 . | 2 9 | 9 | 9. |
| | 25000 | 11.4 | 13.1 | 10.5 | 9.0 | | 2.5 | 8 | 1.5 | | | 1.1 | | 2.5 | ۲ ، | 2.2 | 4.3 | 5° 6 | 3.1 | * |

| (TABLES | TONE -C | TONE-CORRECTED, | | A-NEIGHT | HTED OVE | OVERALL S | SOUND LE | LEVEL (| (08A) | | | | | | | TOENT | DENTIFICATION | IONS | |
|--------------------|---|-----------------|----------|------------|-----------------------------|-----------------------------------|----------|--------------|-------------|------|---|-------------------------|------------------------|---|------------------|---|---------------------|------------|-----------------------|
| | AS A F | A FUNCTION | 9 | ANGLE A | AND DIS | DISTANCE | FROM SC | SOURCE | | | | | | | |) TEST 7 | 79-738-00 | 8-001 | ` ~ ~ |
| NOIS | E SOURCE/SUBJECT: F-16 AIRCRAFT IN THE AF32A-25 SUPPRESSOR FAR-FIELD NOISE | 18JECT 1 | 0.7 HE | | 0 PE R R R R | TION: 0% RPM INGLE ROUND | ENGINE | (SUPPRESSED) | SSE0) | 2 6 | METEOROLOGY : TEMP BAR PRES: REL HUMI DELTA N = | OGY 1 PRESS HUMID | = 59 =29,92 = 70 | 7 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 | 7 0 0 0 | AIRCRAF OPERATI PROFILE 28 NOV PAGE G | , 3 ² 5, | CODE 1 | 36) 0119) A) |
| (DISTANGE (FEET) | o | 10 | 20 | g, | 3 | 50 | 9 | 7.0 | ANGLE 8ú | 90 | (OEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 160 |
| 500 | 82,9 | 87.0 | 86.2 | 83.9 | 78.7 | 75.2 | 84.0 | 79.4 | 78.9 | 76.5 | 75.7 | 71.3 | 78.3 | 75.3 | 69.7 | 72.3 | ~ | 70.0 | 71.4) |
| 550 | 80.8 | 84.9 | 84.0 | 81.7 | 76.5 | 73.0 | 81.7 | 77.1 | 76.6 | 74.2 | 73.5 | 69.2 | 76.0 | 73.1 | 67.6 | 70.2 | . | 6.29 | 69.3 |
| 315 | 78.7 | 82.7 | 81.8 | 79.5 | 74.3 | 70.8 58.6 | 79.5 | 74.9 | 74.3 | 72.0 | 71.4 | 67.1 | 73.7 | 70.9 | 65.5 | 68.2 | 65.1 | 65.9 | 67.3) |
| 200 | 7.5 | 78.1 | 77.2 | 74.9 | 69.7 | 66.3 | 74.8 | 70.7 | 69.4 | 67.3 | 66.8 | 62.7 | 69.0 | 66.3 | 61.2 | 63.9 | • • | 61.6 | 63.1) |
| 630 | 71.8 | 75.7 | 74.8 | 72.5 | | 63.9 | 72.3 | 67.6 | 66,9 | 64.8 | 64.4 | 60.3 | 66.5 | 63.3 | 59.0 | 61.6 | 10 | 59.3 | 60.8 |
| 808 | 9. 4 | 73.2 | 72.4 | 70.0 | | 61.5 | 69.7 | 65.0 | 64.2 | 62.3 | 62.0 | 57.8 | 63.8 | 61.4 | 56.7 | 59.3 | N | 6.99 | 58.3) |
| 16.00 | 66,9 | 70.6 | 6,0 | 67.5 | A 2, 4 | 50,0 | 67.1 | 62.3 | 61. A | 4 | 4,03 | Sf. 2 | 61.4 | 5. A | 54.2 | S. A. | 51.7 | 4.4 | 55.A) |
| 1250 | 64.2 | 67.8 | 67.2 | 64.9 | 50.00 | 56.4 | 64. | 59.5 | 58.7 | 56.8 | 56.7 | 52.5 | 58.2 | 56.0 | 51.5 | 54.1 | . თ | 54.5 | 52.9 |
| 1630 | 61.4 | 65.0 | 64.5 | 62,1 | 57.0 | 53.7 | 51.5 | 96.6 | 55.7 | 53.9 | 53.9 | 49.5 | 55.2 | 53.1 | 48.6 | 51.3 | | | 49.7 |
| 2000 | 58.5 | 62.0 | 61.7 | 59,3 | | 50.9 | 58.5 | 53,5 | 52.6 | 50.9 | 50.9 | 46. | 52.1 | 50.0 | 45.5 | 46.3 | 6 | _ | 46.4) |
| 9052 | 55.3 | 58.8 | 58.8 | 56.3 | | 47.8 | 55.3 | 51.3 | 49,3 | 47.6 | 47.7 | 45.9 | 48.8 | 46.7 | 42.0 | 45.0 | 4 | | 45.6) |
| 3150 | 51.9 | 55.3 | 55.6 | 53.1 | | 44.6 | 51.9 | 46.8 | 45.8 | 44.2 | 44.2 | 39.2 | 45.2 | 43.1 | 38.2 | 41.4 | 9 | N | 38.4) |
| | 4 6 . | 51.0 | 51.0 | 7 ° 7 | * | 2 to 1 | 6.7 | 42.8 | 41.6 | 40°1 | 0.04 | 0.4° | 6.04 | 38.9 | 33.8 | 37.4 | w (| M 1 | 33.6) |
| | 9 6 | P 4 | 2,0 | 1 2 4 | | 34.8 | 40.0 | 4 C | 32.2 | 20.0 | 200 | 50° | 2000 | 200 | 24.5 | 7007 | 4 6 | . a | 24.6 |
| 0000 | 35.1 | 37.8 | 38.3 | 36.0 | 30.9 | 27.6 | 34.1 | 28.9 | 27.3 | 25.9 | 25.5 | 21.4 | 26.5 | 24.9 | 20.7 | 24.8 | 21.2 | 19.5 | 20.7 |
| J | | | | | | | | | | | | | | | | | | | ^ |
| 10000 | 30.7 | 33.0 | 33.3 | 31.2 | 26.2 | 23.0 | 29.5 | 23.8 | 25.2 | ċ | 20.4 | 17.0 | 21.3 | 19.8 | 16.7 | 20.8 | 1 0 | 16.1 | 17.4) |
| 12500 | 26.1 | 28.2 | 28.3 | 2 % | 21.3 | 18.3 | 24.1 | 18.6 | 17.0 | 15.8 | 15.4 | 12.9 | 16.3 | 15.0 | 12.9 | 16.8 | ~ | 12.8 | 14.1 |
| 16600 | 21.2 | 23.1 | 22.8 | 20.7 | 16.1 | 13.2 | 18.8 | 13.1 | 11.6 | ė | 10.3 | 8.8 | 11.3 | 10.2 | 9.5 | 12.6 | . | 9.5 | 10.9 |
| 20000 | 16.3 | 18.0 | 16.7 | 14.7 | 10.6 | 7.9 | 13.3 | 7.3 | 6.0 | 5.3 | 5.5 | . | 9.9 | 9.0 | 5. 6 | 4.6 | 6. 2 | 6.3 | 7.6 |
| 25000 | 11.4 | 13.1 | 19.5 | 9.0 | ÷ | 2.5 | 0 | 1.5 | ۲. | * | 1:1 | 1. 3 | 2.5 | 2.3 | 2.5 | 4. 3 | ۰ | 3.1 | |
| . | | | | | | | | | | | | | | | | | | | ^ |

| MATEOROLOGY SOUNCE/SUBJECT OPERATION | | DIS | DISTANCE | CE = 250 |) FEET | | | | | | | | | | | DOMEGA | 5A 8°2 T 79-73(| 79-736-001 | OMEGA 8.2 Test 79-738-001 |
|--|-----------------------|-------|------------------------------|---------------------------------|--------|------|-----|--------|---|------|-----------------------------|---------|----------------------------------|----------|--------|---------|---|-------------------------|------------------------------|
| 20 C C C C C C C C C C C C C C C C C C C | NOISE S FIL AFR | 6 AIR | E/SU RCRA 5 SU LD N | BJECT: FT IN THE PPRESSOR | | OPER | | SNGINE | SUPPRESSED | | METEOR TE BA DELTA | OLOGY : | 29.5 2.0 5.0 6.0 8.0 | L H X | ی | A PRIME | RUN 82 AIRCRAFT CODE 7: OPERATION CODE 8: PROFILE VERSION 28 NOW 79 PAGE J2 | C00E - C00E ERS10 | 736 80119 N A |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | • | | | Ndrd | 1 | | 1 | A=AL | | | | A=T | LT | | | | |
| MET OF THE PROPERTY OF THE PRO | | (| ! . | | | • | • | | | | | | • | | | • | | ٠ | ; - : |
| 10 C C C C C C C C C C C C C C C C C C C | | D | :. | • | • | • | • • | • | • | • | • | • | ••• | • | • • • | • • | • | • • | - |
| 26 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | 97 | • • | | | | • • | | • • | • • | | • • | • • | | - 4 | •• | | ••• | |
| N M M M M M M M M M M M M M M M M M M M | | 56 | · • | | | • | • | | • • | • | | • | • | | . A T | • | | • | |
| 100 | | 36 | | • | • | • | • | • | • | • | • | • | • | • | | • • | • | • • | • |
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| 6 68 (*** AT AT AT AT AT AT AT AT AT AT AT AT AT | ∢ Z | 3 | • • | | | •• | • • | | • • | • • | | • • | < . | - | •• | • • | | • • | • • |
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| 100 | ٠ | • | • | | • | • | • | | • | • | | • | • | • | • | • | ٥ | • | |
| 1100 | 4 Z | | • • | | • • | • • | • • | | • • | • • | | | • • | - • | | • • | L | • • | |
| 120 (170 (170 (170 (170 (170 (170 (170 (17 | • | 96 | : | • | • | • | • | • | • | • | • | • | • | , AT | • | • | • | • | • |
| 120 (1) AT A T A T A T A T A T A T A T A T A T | | 160 | • • | | | •• | • • | | • • | • • | | | ٠. | - | | • | | • • | |
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| 130 K X X X X X X X X X X X X X X X X X X | | 120 | _ 5 | • | • | • | | • | • | • | • | • | • | → | • | • | ٠ م | • | ~ ; |
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| AT X X | | 769 | •• | | | • • | • • | | | . • | | | • • | | • • | • • | | • • | ^ ^ |
| X X X | | | • | | • | • | • | | • | • | | | | | • | • | | • | |
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| ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; | | 100 | :. | • | • | _ | ••• | • | • | • | • | : | × | • | • | • | • | •• | :- |
| 20 10 10 10 10 10 10 10 10 10 10 10 10 10 | | _ | | | | 90 | | | 64 | 68 | | 64 | 7.8 | | | 5 | ! | | ? _ |

| TABLE: | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 250 F | PRE | SSURE | LEV | (09) | | | | | | | | | | DENTIF OMEGA TEST 7 | ATI • 2 738 | ON 8 | |
|----------------------------------|--|------------------------|-----|------------------|--|---------------------------|-------------------|--------------------------|----------|----------------|-----|----------|---|--------|------------|---|-------------------|------------|----------------|
| 01SE S F-16 AF32A FAR-F | SOURCE/SUBJECT: AIRCRAFT IN THE A-25 SUPPRESSOR FIELD NOISE | ⇔ ¥ ~ | | OPER SI SI | ERATIONS MILITARY SINGLE EI GROUND RI | THE POWER ENGINE SUNUP (S | R (91% (SUPPRE | (91% RPM) Suppressed) | | | 0.0 | 7 | . 59 7 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 9 H | | AIRCRAFT OPERATIO PROFILE 28 NOV 7 | z > o | CODE 7 | 38 810 8 |
| (BAND CENTER (FREQ (HZ) | | 10 | 20 | 30 | 9 | J. | 99 | ANGL 70 8 | | DEGREE 90 1 | | 10 1 | 20 1 | 30 1 | 9 | 150 | 160 | 170 | 190 |
| 20 | 89 | 88 | 8 | 40 | 80 | | | 22 | 82 | 77 | 3 | 92 | 81 | | 90 | 81 | 48 | 87 | 87 |
| | €0 | 83 | 81 | 81 | 81 | | | 83 | 79 | 81 | 81 | 85 | 85 | | 94 | 10 | 83 | M 60 | 86 |
| 08 | 96 | 88 | 82 | 83 | 81 | | | 92 | 92 | 78 | 81 | 83 | 94 | | 85 | 94 | 86 | 84 | 82 |
| 100 | 87 | 87 | 85 | 83 | 81 | | | 92 | 11 | 77 | 82 | 86 | 94 | | 96 | 82 | 7 0 | 87 | 69 |
| 125 | | 3 | | 81 | 62 | | | 77 | 92 | 92 | 11 | 18 | 4 | | 81 | 83 | 82 | 85 | 87 |
| 160 | 73 , 80 d | 13 S | | # * | 62 | | | 77 | 47 | 9: | 79 | 1 00 | 92 | | 62 | 85 | 6 1 | 0 . 0 . | ₩. 60 F |
| 1950 | 10 | 3 0 | 0 d | 10 | 2 2 | | | | 7 2 | 2 K | 0 Y | 2.7 | 9 P P | | C | . . | S 6 | 4 E | 3 |
| 315 | 5. | . 6 | | 76 | 78 | | t. 0 | , r , r | · - | 7.2 | 7.7 | 22 | 70 | 22 | 2.5 | 2 2 | 2 2 | - 6 | - 6 |
| 004 | 77 | 12 | 81 | 2 | 12 | | | 73 | 72 | 73 | 72 | 2 | 70 | | 73 | 72 | 72 | 2 | 26 |
| 530 | 73 | 22 | | 11 | 75 | | | 22 | 69 | 29 | 99 | 65 | 65 | | 99 | 65 | 9 | 29 | 69 |
| (630 | 72 | 92 | 62 | 92 | 73 | | | 7.0 | 68 | 29 | 94 | 9 | 62 | | 9 | 63 | 63 | 99 | 65 |
| J08) | 75 | 7.8 | 78 | 92 | 73 | | | 69 | 68 | 68 | 65 | 65 | 63 | | 62 | 61 | 29 | 63 | 61 |
| 1100 | 72 | 22 | 92 | 73 | 70 | _ | | 99 | • | 99 | 29 | 29 | 61 | | 9 | 23 | 61 | 29 | 61 |
| 1250 | 7.0 | 7. | 4 | 11 | 89 | - | | • | 95 | 49 | 09 | 58 | 26 | | 20 | 29 | 23 | 9 | 21 |
| 1606 | 2; | 52 | 2 1 | 7; | 9 9 | | | 99 | 63 | | 25 | 29 | ا را ا را | | | 28 | ر م م | 9 (| 57 |
| | 15 | • • | • • | 19 | 9 4 | | | 9 | 2 4 | 0 4 1 | 10 | יי יי | מ מ | | 5 0 5 0 | , u | 7 7 7 | 7 7 | . 4 |
| 3150 | 69 | . 22 | 72 | 68 | 9 4 | | | 2 6 | • 6 | 5 5 | 200 | 2 6 | 25 | | 2 0 | , 45 | 2,4 | , r 5 | 2 Y |
| 0004 | 69 | 23 | 72 | 89 | 40 | | | 62 | 20 | 9 | 90 | 24 | 25 | | 24 | 53 | 25 | 53 | 25 |
| 2000 | 99 | 7.1 | 70 | 99 | 29 | | | 58 | 55 | 26 | 53 | 51 | 6 48 | | 20 | 20 | 64 | 64 | 4 |
| (6300 | 65 | 69 | 70 | 65 | 61 | | | 96 | 53 | 52 | 51 | 64 | 24 | | 4 8 | 48 | 47 | 24 | 47 |
| 0008 | 61 | 99 | | 63 | 23 | | | 53 | 50 | 52 | 20 | 20 | 50 | | 20 | 2 0 | 50 | 50 | 2 |
| 10000 | 63 | 29 | 69 | 5 | 9 | | | 54 | 52 | 53 | 53 | 53 | 53 | | 53 | 53 | 53 | 53 | 23 |
| (OVERALL | 95 | 36 | 16 | 95 | 16 | 69 | 88 | 87 | 87 | 87 | 89 | 95 | 95 | 91 | 91 | 91 | 92 | 93 | 95 |
|) | | | | | | | | | | | | | | 1 | | | | | |

| 7 | 2000 | | | | | | | | | |
|--|---|---------------------|--------|-----------------|--------------|----------------------|-----------------------|---|----------------------|-------------------------------------|
| 738 | 9010¢ | 160 | 96.9 | 90.3 | 83.0 | 79.8 76.4 72.6 | 69.1 | 54.6 48.3 | 36.0 | 15.7 |
| 10N: 8-081 CODE | RSION | 170 | 95.8 | 89.2 86.9 | 84.4 | 78.4 75.0 72.0 | 68.7 64.6 59.8 | 6 4 4 6 4 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 | 35.6 | 12.4 |
| IFICATIONS A 8.2 79-736-061 03 | TION LE VE IV 79 D3 | 160 | 94.1 | 7. 9. | 20.5 | 76.5 73.1 69.7 | 4.00 | 51.6 54.8 37.5 | 31.3 | 3.9 |
| IDENTIFICATION OHEGA 8.2 TEST 79-738-0 RUN 03 AIRCRAFT COD | OPERATION CODE PROFILE VERSION 28 NOV 79 PAGE D3 | | 404 | | 10 P | | + 01 M | 10 or 21 | 4 94 | ~ |
| | | 15 | | | | | | | | |
| | Š. | 340 | 94.6 | 88.0 | 83.1 80.2 | 77.1773.7770.2 | 66.9 62.8 57.9 | 52.1 45.7 38.6 | 31.7 | 6.9 |
| | F H X | 130 | 94.0 | 84.8 | 82.1 79.2 | 76.2 72.9 69.2 | 65.7 | 50°6 50°6 36°5 | 29.7 | • |
| | = 59 =29,92 = 70 0 08 | 120 | 95.0 | 88.4 | 83.3 | M 0 4 . 0 7 | 66.4 61.8 55.7 | 3 t 20 6 t 6 6 t 6 | | |
| - | PRESS EL | | 306 | . <i>-</i> # 0^ | e in | m a + | .+ m n | | 4 10.0 | |
| 2,06 | またって のままれ | 011 | 95. | 9 6 | 8 8 | | 61.9 | | | |
| METEOROL 06Y | TEMP BAR REL DELTA N | (DEGREES) 90 140 | 93,5 | 86.6 | 81.5 78.7 | 75.9 72.9 69.9 | 66.7 62.5 57.7 | 52.4 45.6 38.5 | 32.4 25.1 15.6 | 7.1 |
| - | ~~~ | | 93.5 | 86.5 | 81.5 | 76.2 73.4 70.4 | 63.1 | 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 34.5 | 7.6 |
| | RPH) | ANGLE | 92.8 | າຕະຄ | o 4 | | | 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° | | |
| SOURCE | (91% UPPKL | 7.0 | | . ~ ~ | | 77.6 | | | 01 NO =4 | 15.7 6.3 |
| DOS HO | MILITARY POWER SINGLE ENGINE GROUND RUNUP (S | 6.0 | 95.9 9 | | | | | 55.5 | | 5.0 |
| F 0 0 4 | RES | | | | | | | | | |
| ISTANCE RATIONS | SINGLE | .v | 95.5 | 9 | 83. | 78. | 6.5 | 4 60 50 4 60 50 5 60 5 | 33. | 17.8 8.3 |
| (PNOB) AND DISTANCE (OPERATIONS | 20,0 | 3 | 97.8 | 91:19 | 86.1 83.5 | 80.8 77.9 74.9 | 711.7 67.7 67.7 | 50 50 50 50 50 50 50 50 50 50 50 50 50 5 | 42.3 36.7 30.6 | 23.1 |
| [` w | | 8 | 100.4 | 93.7 91.3 | 85.6 86.0 | 222 | 224 | 55.6 55.6 | 45. 3 40.0 | 26.8 16.3 % 8 |
| SE LEVE | w | 26 | m 0 4 | | 9 9 | | 9~" | , r w w | w | |
| NOISE TION OF | H N I | _ | | | | | | | | |
| FUNCTION SUBJECTS | AFT I UPPRE NOISE | . ~ | 103.2 | | | | 75.1 | | | 12. |
| PERCEIVED NO AS A FUNCTIO SOURCE/SUBJECTS | AIRCR -25 SI IELD I | 1 | 100.9 | 94.2 | 89.1 | 83.6 80.2 77.0 | 73.7 69.7 | 55.2 | 37.9 | 7.8 |
| E: T | | . z ⊢ | 250 | \$ 00 A | 900 | 10:0 1250 1600 | 2040 2540 | 2000 2000 2000 2000 2000 | 3 C G | |
| TABLE | <u>i.</u> ≪ i | OIST | ~~~ | N & C | ••• | 229 | 252 | 383 | 100.0 | 1 16030 2 2 6 0 0 0 2 5 6 0 0 |

| NOISE SOU F-16 AF321 FAR-F | SOURCE/SUBJECT -16 AIRCRAFT IN | E SOURCE/SUBJECT: F-16 AIRCRAFT IN THE AF32A-25 SUPPRESSOR FAR-FIELD NOISE | | | | | | 3000 | | | | | | | | 1531 | 79-73 | 1-738-001 | |
|-------------------------------------|-----------------------------------|---|------|-------------|-------------------|---|-------------------|-----------------------------|----------------|--------------------|---|--------------------------|---|--|----------|--|---------------------------------------|---------------------------|-----------------|
| | FIELD | | THE | | 00 RR R R R | RATION: MILITARY SINGLE EL GROUND R | POWE | R (91% RPH) (SUPPRESSED) | RPM) ESSED) | # C C C | METEOROLOGY TEMP BAR PRE REL HUM | SS | = 5 = 29.9 = 7 | 20 F 20 F 20 K 20 K 20 K 20 K 20 K 20 K 20 K 20 K | | AIRCRAF DOPERATI PROFILE 26 NOV PAGE E | AIRCRAFT OPERATION PROFILE VE PAGE E3 | CODE 7 CODE 6 RSION | 36 0104 A |
| DISTANCE (FEET) | | 10 | 20 | 38 | 3 | 50 | 9 | 2 | ANGLE 80 | COEGREES 90 100 | REES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | | | | 100. | ~ . | 95.5 | 95.9 | 95.1 | 93.8 | 93.5 | 94.3 | 95.7 | 95.6 | 94.8 | 9.46 | 94.1 | | 95.8 | 97.4 |
| 315 | | | | 96 | ňň | 93.6 | 92.7 | 90.5 | 89.3 | 88.9 | 89.9 | 93.6 91.6 | 93.4 91.3 | 90.5 | 90.2 | 95.eu | 90.2 | 92.6 | 93.1 |
| 0 0 4 u | 94.2 | 96.1 | 96.3 | | 91.1 | 88.7 | 89.0 | 88.2 | 86.9 | 86.5 | 87.5 | 89.1 | 89.0 | 88.1 | 68.0 | 87.5 | 87.9 | 89.2 | 90.9 |
| 63.6 | | | | 8 9 | å | 83.00 83.00 | 0 0 0 0 0 0 | 63.1 | 61.9 | 81.5 | 82.4 | 0 0 0 0 0 0 0 0 | 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 62.9 | 63.1 | 82.5 | | 94.4 | 86.2 |
| 800 | 86.4 | 86.0 | 88.6 | | 'n | 81.3 | 81.1 | 98.4 | 18.4 | 78.9 | 19.6 | 81.2 | 81.0 | 80.0 | 80.2 | 79.7 | 90.0 | 81.5 | 83.5 |
| 1000 | 83.6 | 85.1 | | 83. | | 78.6 | 78.2 | 77.6 | 76.7 | 76.2 | 76.8 | 78.0 | on. | 77.0 | 77.1 | 76.5 | | | 80.3 |
| 1250 | 80.2 | 82.0 | | 80. | | 75.5 | 75.3 | 74.6 | 73.7 | 73.4 | 73.8 | 7.4.7 | ۰ | 73.7 | 73.7 | 73.1 | 73.7 | | 76.9 |
| 1600 2000 | 7.3.7 | 78.7 | | 77.4 | 74.9 | 72.4 | 72.2 | 71.6 | 70.8 | 70.4 | 70.8 | 71.1 | 70.9 | 70.0 56.5 | 70.2 | 69.8 66.4 | 70.3 | 72.0 | 73.2 |
| 2500 | 69.7 | 71.3 | | 2 | | 65.2 | 6 * 4 9 | 4.49 | 63.4 | 63.1 | 63.4 | 62.7 | ٠. | 62.3 | 62.8 | 62.2 | 62.9 | | 65.5 |
| 3150 | 65.1 | 67.0 | | 65. | | 60.7 | 60.4 | 58.9 | 58, 8 | 59.5 | 58.5 | 57.7 | C. | 57.3 | 57.9 | 57.3 | | | 60.7 |
| 400 th | 60.2 | 62.5 | 63.7 | 6 7 8 | 7 00 H | 55 55 56 56 56 56 56 56 56 56 56 56 56 5 | 50.0 | 20.0 | 50 cm | 53.1 | 52.8 | 51.6 | с и | 51.3 | 52.1 | 51.6 | | | 55.0 |
| 6300 | 49.2 | 52.0 | 53.2 | 2 2 | | | 43.5 | 43.2 | 10.0 | t D • | 38.9 | | , « | 36.9 | 38.6 | 37.4 | 37.8 | | 41.2 |
| 0000 | 44.1 | 47.0 | 48.5 | 4.5 | 42,3 | 39.0 | 38.4 | 38.2 | 35.2 | 34.5 | 32.6 | | . | 29.9 | 31.7 | 32.1 | | | 36.1 |
| 10000 | 37.9 | 40.0 | 43.1 | 4 | 36.7 | 33.4 | 32,3 | 31.5 | 28.7 | 27.3 | 25,1 | 23.5 | 22.8 | 23.0 | 26.1 | 25.0 | 24.3 | 30.7 | 31.6 |
| 12500 | 30.0 | 33.1 | 37.0 | 33 | | 27.3 | 24.7 | 25.1 | 20.4 | 19.1 | 15.6 | 11.6 | 13.7 | 11.8 | 17.2 | 16.4 | 14.1 | 22.7 | 24.7 |
| 16000 | 21.1 | 24.6 | 30.7 | | 23.1 | 17.8 | 4.8 | 15.7 | 8 .3 | 7.6 | 7.1 | | 4.7 | .7 | e 6 . | | 3.9 | 12.4 | 15.7 |
| 25000 | • | 6. | 10.9 | 4 | | • | • | • | | | | | | | • | | | 1.0 | • |

| (TABLE : | A-WE 1 G | HTED 0 | A-WEIGHTED OVERALL | Š | JND LEVEL (DBA) | (DBA) | | | | | | | | | |) IDENTI | IDENTIFICATION | IONI | |
|---------------------|-------------------------------|--|--------------------|---------|--|--|---|-----------------------------|-------------|--------------|------------------------------|-------------------------|------------------------|---|-----------------------|---|--|-----------------------|------------------|
| | AS A | FUNCTION OF | N OF | u | 0 | | FROM SO | SOURCE | | | | | | | | TEST | ~ (| 8-001 | • |
| NOIS | AIRC AIRC A-25 FIELD | SUBJECTS RAFT IN SUPPRESS NOISE | : | | OPERATIONS MILITA SINGLE GROUND | RATIONS MILITAR SINGLE GROUND | ATION: MILITARY POWER SINGLE ENGINE GROUND RUNUP | R (91% RPH) (Suppressed) | RPM) | | TEOROL TEMP BAR REL | OGY I PRESS HUMIO | = 59 =29,92 = 70 | 7 N N N N N N N N N N N N N N N N N N N | T 1 1 1 1 | AIRCRAFT OPERATI OPERATI PROFILE PAGE F | 73 RAFT ATION ILE VE DV 79 F3 | CODE CODE ASTON | 738) 60104) |
| (DISTANCE ((FEET) | | 97 | 20 | 3 | 3 | 20 | 69 | 70 | ANGLE 8. | CDEGREES) | (EES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 500 | 95.7 | 88.2 | 89.2 | _ | 83,9 | 81.4 | 81.4 | 61.0 | 78.8 | 79.3 | 78.4 | 79.1 | 79.1 | 78.0 | 78.3 | 78.8 | 9 | 80.3 | 81.3) |
| 315 | 81.5 | 8 3. B | 84°9 | | 7.67 | 77.2 | 77.1 | 76.8 | 74.6 | 75.1 | 74.3 | 75.c | 75.0 | 73.9 | 74.2 | 7.5.7 | ש פ | 76.2 | 77.2) |
| 004 | 79.3 | 81.6 | 82.7 | _ | 17.5 | 75.1 | 6.42 | 74.6 | 72.5 | 72.9 | 72.1 | 72.9 | 72.9 | 71.3 | 75.1 | 72.6 | | 74.1 | 75.1) |
| 000 | 77.0 | 79.3 | 78.7 | 77.9 | 75.3 | 72.9 | 72.7 | 72.4 | 70.3 | 70.7 | 69.9 67.6 | 70.6 | 70.6 | 69.6 | 70.0 | 70.4 | 70.3 | 72.6 | 73.0) |
| 800 | 72.3 | 74.5 | 75.8 | | 70.6 | 69.4 | 68.0 | 67.8 | 65.7 | 66.1 | 05.3 | 65.8 | 65.7 | 64.8 | 65.4 | 65.7 | , IV | 9.29 | 68.4 |
| | 6.04 | 72.4 | 7.7.4 | 7 11. 8 | 4 | 6.6. | 5.5 | 4.6 | 1 2 9 | 62.7 | 4 63 | 67.5 | * * * | | 6 2 7 | 6.1.3 | | 9 | , מ מ |
| 1250 | 67.2 | 69.4 | 70.8 | | 65 G | 63.5 | 65.9 | 62.8 | 60.8 | > ⊷ | 50.1 | 60°4 | 60.2 | 59.5 | . m | | | 62.2 | 63.1) |
| 1600 | 64.4 | 66.7 | 68.2 | _ | 63.2 | 60.9 | 60.2 | 60.1 | -4 | 58.4 | 57.3 | 57.4 | 57.2 | 56.5 | | | m | | 60.2 |
| 2000 | 61.6 | 63.9 | 65.4 | 65.9 | 60.5 | 58.1 | 57.4 | 57.3 | | 55.6 | 54.4 | 54.2 | 54.0 | 53.3 | 74.00 | 54.3 | 54.2 | | 57.1 |
| 3150 | 5. 5. 5. 5. | 57.5 | 59.1 | | 2.0 | 51.5 | 50.0 | 50.7 | v as | 49.4 48.9 | 71.0 | 46.8 | 46.3 | 45.6 | , 6 | | 46.6 | | 40°4 |
| 0004 | 51.1 | 53.9 | 55.4 | | 50.3 | 47.8 | 46.9 | 46.9 | | 45.1 | 43.2 | 42.7 | 41.9 | 41.2 | ~ | | 42.2 | مر | 44.8 |
| 2009 | 47.0 | 49.9 | 51.3 | _ | 46.1 | 43.5 | 45.7 | 45.6 | • | 6 • 3 • | 38.8 | 38, 3 | 37.5 | 36.6 | - | | 37.7 | 6 | (0.04 |
| 6300 | 45.6 | 45.5 | 46.9 | _ | 41.7 | 39.1 | 38.2 | 38.2 | 36.4 | 36.5 | 34.2 | 33.9 | 33.0 | 32.0 | 3 | | 33.0 | ~ | 35.1) |
| 0990 | 36.7 | 41.5 | 4 3° B | _ | 37.9 | 35.4 | 34.4 | 34.4 | ~ | 32.6 | 30.6 | 30.4 | 29.6 | 28.5 | • | | 29.6 | • | 32.0) |
| 10800 | 34.5 | 37.6 | 38.9 | _ | 33,9 | 31.5 | 30 . 3 | 30.3 | 28.6 | 29.4 | 26.7 | 26.7 | 25.1 | 25.2 | 26.5 | 26.1 | 26.0 | 28.3 | 28.7) |
| (12500 | 29.9 | 32.2 | 34.3 | _ | 29.5 | 27.2 | 25.9 | 26.0 | 24.3 | 3. | 22.6 | 22.8 | 22.5 | 21.6 | 22.8 | 22.5 | * | 54.6 | 25.2 |
| 16000 | 25.2 | 27.1 | 29.4 | _ | 24.0 | 22.5 | 21.2 | 21.2 | 19.6 | • | 18.4 | 19.0 | 18.9 | 18.0 | 19.0 | 10.7 | و | 20.7 | 21.7) |
| 20010 | 20.3 | 21.7 | 24.1 | 21.8 | 19.7 | 17.5 | 16.2 | 16.2 | 14.6 | 14.2 | 14.0 | 15.1 | 15.3 | 14.4 | 15.1 | 15.0 | 14.9 | 16.8 | 10.0 |
| (25330 | 15.6 | 16.2 | 18.5 | | 14.3 | 12.3 | 11.0 | 10.8 | 4.6 | 9.1 | 9.6 | 11.4 | 11.7 | 10.8 | 11.2 | 11.2 | - | 12.9 | 14.2 |
| _ , | 1 | | | | | | | | | | | | | | | | | | _ |

| F-EARCRET IN THE | | AS A F | FUNCTION | Å | 4 | AND DISI | DISTANCE FROM | FROM SO | SOURCE | | | | | | | | TEST | 79-73 | 79-738-881 | |
|--|-------------------------------------|---|------------------------------------|-------|---|-------------|-----------------------------|-----------------|----------------|---------------|----------|--------------|---------------|--------------|--------------|------|---------------------------------------|---------------------------|----------------------|-----------------|
| ANGLE (DECREES) ANGLE (DECREES) ANGLE (DECREES) ANGLE (DECREES) ANGLE (DECREES) ANGLE (DECREES) ANGLE (DECREES) ANGLE (DECREES) ANGLE (DECREES) ANGLE (DECREES) ANGLE (GROED 130 146 1146 1146 1146 1146 1150 1161 1161 1161 1161 1161 1161 116 | NOISE SOU F-16 AF324 FAR-F | JRCE/SU AIRCRA 1-25 SU FIELD N | BJECT 8 FT IN PPRESS OISE | | | · ~ · · · · | TIONS ILITARI INGLE & | POWER INGINE | (91% Suppre | RPH) SSED) | 7 C C C | SEKTR | ဖွင့ ် | | r H X | | AIRC DOPER DPROF | RAFT LATION TILE VE | CODE CODE RSIO | 36 0104 A |
| 85.7 88.2 89.2 86.5 83.9 81.4 81.4 81.0 79.8 79.3 79.5 77.6 77.6 77.6 77.6 77.6 77.6 77.6 77 | DISTANCE (FEET) | 9 | 10 | 20 | 1 19 | 3 | 50 | 09 | 7.0 | ANGLE | ~ ~ | EES) 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 160 |
| 69.9 72.7 73.6 <th< td=""><td>200</td><td>85.7</td><td>88.2</td><td>69.2</td><td></td><td>63.9</td><td>81.4</td><td>81.4</td><td></td><td>60 P</td><td>~ ^</td><td>79.3</td><td>79.8</td><td>79.6</td><td>78.8</td><td>78.3</td><td>78.8</td><td>79.2</td><td>80.3</td><td>81.8</td></th<> | 200 | 85.7 | 88.2 | 69.2 | | 63.9 | 81.4 | 81.4 | | 60 P | ~ ^ | 79.3 | 79.8 | 79.6 | 78.8 | 78.3 | 78.8 | 79.2 | 80.3 | 81.8 |
| 73. 3 61.6 62.7 60.1 77.5 75.4 74.9 74.6 73.5 72.9 73.0 73.6 73.4 72.6 72.4 72.5 77.9 74.0 77.5 77.4 77.8 77.0 73.0 73.4 72.6 77.9 77.0 77.0 77.0 77.0 77.0 77.0 77.0 | 315 | 81.5 | 63.6 | 6.40 | 82.2 | 7.67 | 77.2 | ۔ ہ | | م ۔ | | 75.1 | 75.7 | 75.6 | 74.7 | 74.2 | | 75.1 | 76.2 | 7.77 |
| 74.7 77.8 75.6 75.5 76.9 72.7 72.4 72.4 72.4 72.4 72.4 72.4 72.4 | G (| 79.3 | 81.6 | 82.7 | 80.1 | 77.5 | 75.1 | ~ . | ω. | :01 | _ | 73.0 | 73.6 | 73.4 | 72.6 | 72.1 | 72.6 | 73.0 | 76.1 | 75.6 |
| 72.3 74.5 75.8 73.2 70.8 68.4 68.0 67.8 66.7 66.1 66.2 66.3 65.6 65.4 65.7 66.2 67.4 67.8 65.7 66.2 67.4 65.8 65.4 65.8 65.8 65.8 65.8 65.8 65.8 65.8 65.8 | 9 9 9 | 2 | 77.0 | 78.2 | 75.6 | 75.5 | 70.7 | | . | m a | | 70.8 68.5 | 71.4 | 71.2 68.8 | 70.4 66.1 | 70.0 | 70.4 | 78.9 | 72.6 | 73.5 |
| 69.9 72.1 73.4 70.6 60.6 60.6 65.5 62.9 65.6 61.3 61.0 61.1 61.0 61.1 60.0 60.3 60.3 60.4 60.0 62.2 67.2 69.4 70.6 60.3 65.6 63.5 62.9 62.9 62.8 61.8 61.1 61.0 61.1 60.0 60.3 60.3 60.4 60.0 62.2 65.6 63.2 60.3 60.3 60.4 60.0 62.2 65.6 63.2 60.3 60.3 60.4 60.0 61.3 60.4 62.0 61.2 61.1 61.0 61.1 61.0 61.1 61.0 61.3 60.3 60.3 60.4 67.0 67.0 61.2 61.2 61.2 61.1 61.0 61.1 61.0 61.3 61.3 61.4 67.0 67.0 61.2 61.2 61.1 61.0 61.1 61.0 61.1 61.0 61.3 61.3 61.4 67.0 61.3 61.4 61.0 61.2 61.4 61.4 61.4 61.4 61.4 61.4 61.4 61.4 | 900 | 72.3 | 74.5 | 75.8 | 73.2 | 70.8 | 68.4 | | 1 00 | . ~ | | 66.2 | 66.5 | 66.3 | 65.6 | 65.4 | 65.7 | 2.99 | 4.79 | 6.89 |
| 67.2 69.4 70.8 68.3 65.8 63.5 62.9 62.8 61.8 61.1 61.0 61.1 60.8 68.3 68.3 68.4 68.0 62.2 69.4 70.8 68.3 65.4 63.2 69.4 70.8 68.3 69.4 63.2 69.4 63.2 69.4 63.2 69.4 63.2 69.4 63.2 69.4 63.2 69.4 63.2 69.4 63.2 69.4 63.2 69.4 63.2 69.4 63.2 69.4 63.8 69.4 63.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69 | 1000 | 6 8 8 | 72.1 | 73.4 | 70.8 | 68.4 | 66.0 | | 4 | M | | _ | 63.9 | 63.6 | 63.1 | 63.0 | 63.2 | 63.6 | _ | 66. k |
| 64.6 66.7 68.2 65.6 63.2 68.8 60.2 60.1 59.1 59.4 58.2 58.1 57.7 57.9 57.4 57.9 59.4 61.6 63.9 65.4 62.9 66.4 58.2 58.1 57.4 57.8 56.4 55.6 55.3 55.0 51.4 51.9 59.8 56.4 57.6 61.8 61.8 61.8 58.8 58.8 58.4 51.8 61.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 5 | 1250 | 67.2 | 69.4 | 70.8 | 68.3 | 65.8 | 63.5 | | - 00 | | | | 4 | 60.6 | 68.3 | 60.3 | 60.4 | 66.8 | | 63.6 |
| 01.0 03.9 09.4 02.9 01.0 90.1 97.4 97.6 95.6 95.3 95.0 94.5 94.5 94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8 | 1600 | 64.4 | 66.7 | 68,2 | 65.6 | 63.2 | 60.8 | | | - 4. | | ~ 1 | - | | 57.3 | 57.4 | 57.4 | 57.9 | | 69.7 |
| 54.9 57.5 59.1 56.5 54.8 51.5 50.8 50.7 49.8 48.1 47.6 46.8 46.4 41.0 42.7 42.2 42.7 44.6 47.2 48.9 51.1 53.9 55.4 52.8 50.8 50.8 50.8 45.9 45.0 45.1 47.6 46.8 46.4 41.0 42.7 42.2 42.7 44.6 45.9 45.0 13.9 43.3 17.9 43.3 42.4 41.0 42.7 42.2 42.7 42.6 41.4 41.9 13.9 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 | 2500 | 58.3 | 60.9 | 62.4 | 5 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 57.4 | 50.00 | | . | . | | M es | . | . . | 54.4 58.5 | 56.0 | 54.3 | 54.8 | | 53.9 |
| 51.1 53.9 55.4 52.8 50.3 47.8 46.9 46.9 45.8 45.1 43.9 43.3 42.4 41.8 42.7 42.2 42.7 44.6 47.8 42.7 44.8 42.7 44.8 42.7 44.8 42.7 42.6 41.4 41.9 39.3 38.8 37.9 37.1 38.1 37.6 38.8 33.9 33.3 33.4 32.9 33.3 33.4 32.9 33.3 33.8 42.7 42.6 41.4 41.9 39.3 38.6 37.2 32.3 33.4 32.9 33.3 33.8 33.8 32.2 42.7 42.6 41.8 41.8 41.8 41.7 18.8 41.8 41.8 41.8 41.8 41.8 41.8 41.8 | 3158 | 54.9 | 57.5 | 59.1 | 56.5 | 5.0 | 51.5 | | . ~ | . 30 | | , 4 | ص . | | 40.4 | 47.0 | • • • • • • • • • • • • • • • • • • • | 47.2 | | 49.8 |
| 47.0 49.9 51.3 40.7 45.6 41.4 41.9 39.3 38.0 37.9 37.1 30.1 37.6 38.0 39.9 35.9 35.9 35.4 35.4 35.9 35.9 35.9 35.9 35.9 35.9 35.9 35.9 25.0 26.0 26.7 26.7 26.1 25.2 26.5 26.5 26.9 26.0 24.3 23.9 22.6 22.6 26.0 24.3 23.9 22.6 | 0074 | 51.1 | 53.9 | 55.4 | 52.8 | 50.3 | 47.8 | 6.94 | 6 | | _ | • | M | | 41.8 | 42.7 | 42.2 | 42.7 | | 45.2 |
| 36.7 41.5 43.0 40.4 37.9 35.4 34.4 32.9 32.6 30.7 30.5 29.7 28.8 35.4 52.9 55.5 55.6 59.7 31.8 38.7 41.5 43.9 43.9 43.9 43.9 57.9 35.4 35.4 35.4 35.4 35.9 32.6 30.7 30.5 29.7 28.8 30.0 29.6 29.7 31.8 34.5 37.0 38.9 36.3 33.9 33.5 30.3 30.3 28.6 28.4 26.7 26.7 26.1 25.2 26.5 26.1 26.1 26.1 28.3 29.9 32.2 34.3 31.9 29.5 27.2 25.9 26.0 24.3 23.9 22.6 22.8 22.8 22.8 22.8 22.8 22.8 22.8 | | 47.0 | 6.64 | 51.3 | 4 0° 7 | † 6. | 44.5 | 42.7 | ω. | | ٠. | m . | • | | 37.1 | 38.1 | 37.6 | 30.0 | . | M |
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| | DISTANCE | TAR | H H | • | FEET | | | | | | | | | | | | | | | ONEGA TEST | EGA ST 79 | 1 8.2 79-738-001 | .00 |
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| TABLES | ZE AV | SOUND BAND 256 | O PR | SSURE | _ | . (08) | _ | | | | | | | | H | DENTIF OMEGA TEST 7 | 1CATION 8.2 9-738-0 | ON: | |
|---|-----------------------|----------------------|----------|-------------|--------------------------------|---------------------------------------|-----|--|------------|----------------|---|------------|-------------|------------------|----------|---|---|---------------------|-------------------|
| NOISE SOURC F-16 AIRC AF32A-25 FAR-FIELD | BJE IN IN SE | CT: THE SOR | • | OPER SIN | ATION TERBU NGLE OUND | # # # # # # # # # # # # # # # # # # # | . 8 | | | | ETEOROLOGYS TEMP BAR PRESS REL HUMIO | | 9.92 | 9 X X X | | AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE C4 | 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | C00E 1 C00E (ERSION | 736 00103 A |
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| | | 89 | 88 | 88 | 96 | 85 | 83 | 94 | 82 | 82 | 81 | 83 | 8 | 83 | 10 | 40 | 92 | 88 | 9 |
| 90 | | 16 | 96 | 88 | 96 | 3 | 96 | 85 | 83 | 85 | 87 | 99 | 96 | 86 | 29 | 65 | 96 | 8 | 91 |
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| 004 | 98 | 85 | 87 | 82 | 83 | 49 | 83 | 79 | 11 | 28 | 76 | 92 | 77 | 91 | 11 | 92 | 8 | 83 | 96 |
| 506 | | 86 | 96 | 48 | 82 | 83 | 81 | 7.8 | * | 28 | 73 | 22 | 92 | 79 | 11 | 92 | 79 | 82 | 8 |
| 630 | | 82 | 83 | 83 | 29 | 62 | 92 | 92 | 73 | * | 7.1 | 72 | 7.1 | 73 | 72 | 72 | 15 | 2 | 78 |
| 900 | | 40 | 83 | 82 | 77 | 78 | 22 | 7.4 | 72 | 73 | 72 | 73 | 7.1 | 74 | 11 | 71 | 1,4 | 73 | 92 |
| 1000 | | 82 | 82 | 9 | 75 | 75 | 77 | 11 | 69 | 69 | 68 | 69 | 29 | 2 | 29 | 99 | 69 | 69 | 2 |
| 1250 | 19 | 83 | 82 | 80 | 73 | 73 | 20 | 70 | 99 | 29 | 99 | 99 | † | 65 | 69 | 99 | 29 | 29 | 9 |
| 1600 | | 83 | 81 | 4 | 72 | 73 | 20 | 70 | 29 | 68 | 99 | 29 | 6 2 | 65 | 65 | 99 | 99 | 68 | 67 |
| 2000 | | 82 | 80 | 28 | Z | 72 | 69 | 70 | 99 | 99 | 99 | 29 | †9 | 99 | 49 | 65 | 99 | 99 | 49 |
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| 5300 | 73 | 1 6 | 7. | 74 | 65 | 29 | 29 | 29 | 90 | 5 9 | 2 6 | 25 | 2 6 | 22 | 55 | 26 | 25 | 21 | 55 |
| | 11 | * | 72 | 7.7 | 9 | †9 | 9 | 61 | 23 | 53 | 25 | 25 | 21 | 25 | 22 | 22 | 25 | 54 | 25 |
| 9008 | 68 | 72 | 69 | 68 | 9 | 61 | 69 | 9 | 9 | 69 | 60 | 9 | 9 | 9 | 9 | 9 | 9 | 52 | 55 |
| 10000 | 99 | 22 | 69 | 99 | 23 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 28 | 20 |
| OVERALL | 101 | 100 | 100 | 86 | 96 | 95 | *6 | 35 | 16 | 93 | 40 | 95 | 46 | 46 | 93 | 46 | 96 | 4 | 100 |
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| Z > 0 | - | 100, | å. | 0 4 | 92.1 | 89.7 | 87.2 | ; | 9.4.0 | 61.0 | 7.0 | 72.0 | 67.8 | 63.1 | 58.8 | 55.2 | \$ 9 · ¢ | 43.6 | 37.9 | 31.6 | 24.4 | 13.7 |
| RCRAF CERATI OFILE NOV | 160 | 00.3 | | V . K | 91.3 | 88.7 | 85.8 | ; | 82.9 | T., | 1.57 | 70.1 | 66.0 | 61.2 | 26.0 | 50.5 | 46.0 | 6.04 | 35.1 | 27.9 | 18.3 | 8.7 |
| AIRCRAFT DERATION PROFILE V 28 NOV 79 | 150 | 98.4.1 | 96.3 | 9 | 4.68 | 96.6 | 83.8 | | 80.7 | 7.2 | 0 " | 67.7 | 63.5 | 58.5 | 53,3 | 47.4 | 45.6 | 36.4 | 30.2 | 23.4 | 11.5 | |
| | 140 | 98.1 | 95.9 | 42.6 | 89.1 | 86.6 | 83.8 | ; | 80.7 | 7.5 | | 67.6 | 63.4 | 58.5 | 53.2 | 47.7 | 45.9 | 36.9 | 31.0 | 24.3 | 13,9 | 3.5 |
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| ENGINI RUNUP | ê û | 101.1 | | 9 4 | 32.2 | 89.7 | 87.2 | | 64.5 | 81.8 | 7 5 7 | 71.8 | 67.5 | 62.8 | 57.7 | 52.5 | 48.1 | | 37.1 | 31.0 | 22.9 | 12.0 |
| | 5.6 | 103.1 | 100.9 | 96.5 | 94.2 | 91.7 | 89.2 | • | 86.5 | 83.7 | 90.0 | 73.9 | 69.8 | 65.2 | 60.2 | 54.9 | 50.1 | 46.0 | 40.1 | 33.7 | 27.3 | 15.4 |
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| ¥ % | | _ | | | | | | | 91.9 | 88.8 | 62.0 | 78.8 | 74.7 | 70.1 | 65.1 | | | 51.1 | 45.6 | 39.5 | 31.7 | 21.5 |
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| CE/SUE | | 4 | | 4.0 | 99.6 | 97.2 | 94.6 | | 92.0 | 8 3° 5 | 90.1 | 79.5 | 75.4 | 70.9 | 6 • 3 9 | 60.7 | 56.7 | 52.2 | 47.1 | 41.3 | 33,9 | 25, 3 |
| F-16 A F-16 A AF32A- FAR-FI | : | | | | | | | | | | | | | | | | | | | | | |
| | NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) F-16 AIRCRAFT IN THE (AFTERBURNER POWER) TEMP = 59 F) AF32A-25 SUPPRESSOR (SINGLE ENGINE) BAR PRESS =29.92 IN HG) FAR-FIELD NOISE (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 %) | E SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) F-16 AIRCRAFT IN THE (AFTERBURNER POWER) TENP = 59 F) AF32A-25 SUPPRESSOR (SINGLE ENGINE) BAR PRESS =29.92 IN HG) FAR-FIELD NOISE (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 %) (ANGLE (DEGREES) ANGLE (DEGREES) ANGLE (DEGREES) | NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) F-16 AIRCRAFT IN THE (AFTERBURNER POWER) TENP = 59 F) AF32A-25 SUPPRESS = 29.92 IN HG) BAR PRESS = 29.92 IN HG) FAR-FIELD NOISE (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 k) (GROUND RUNUP (SUPPRESSED)) DELTA H = 0.0 DB) DISTANCE ANGLE (DEGREES) (FEET) 1 16 20 30 40 50 60 70 80 99.1 99.8 100.7 99.4 99.3 98.1 96 | NOISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) F-16 AIRCRAFT IN THE (AFTERBURER POWER) TENP = 59 F) AF32A-25 SUPPRESSOR (SINGLE ENCINE) BAR PRESS = 29.92 IN HG) (GROUND RUNUP (SUPPRESSED)) REL 70 %) (GROUND RUNUP (SUPPRESSED)) DELTA N = 0.0 DB DISTANCE ANGLE (DEGREES) (FEET) 1 16 20 30 40 50 60 7 80 99.1 99.8 100.7 99.4 99.3 98.1 96.2 97.2 97.1 95.9 99.1 106.3 107.6 106.9 105.4 104.6 100.9 99.0 97.4 95.7 96.9 97.7 96.6 97.2 97.1 95.9 99.1 | F-16 AIRCRAFT IN THE | POISE SOURCE/SUBJECT: (OPERATION:) METEOROLOGY:) F-16 AIRCRAFT IN THE (AFTERBURNER POWER) TENP = 59 F) AF32A-25 SUPPRESS = 29,92 IN HG) TENP FAR-FIELD NOISE (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 %) (GROUND RUNUP (SUPPRESSED)) REL HUMID = 70 %) (FEET) j 16 20 30 40 50 60 7,4 80 99,1 99,8 100,7 99,4 99,3 98,1 91 82 104,1 105,3 104,7 103,1 96,4 99,0 97,4 95,7 96,9 97,7 96,6 97,2 97,1 95,9 97,1 95,9 97,1 95,9 97,1 95,9 97,1 95,9 97,1 95,9 97,1 95,9 97,1 97,9 97,1 97,9 97,9 97,9 97,9 97 | F-16 AIRCRAFT IN THE (AFTERBURNER POWER) HETEOROLOGY! F-16 AIRCRAFT IN THE (AFTERBURNER POWER) TENP = 59 F) AF32A-25 SUPPRESSOR (SINGLE ENGINE) BAR PRESS =29.92 IN HG) FAR-FIELD NOISE (GROUND RUNUP (SUPPRESSED)) ARL HUMID = 70 k) COUND RUNUP (SUPPRESSED)) ARL HUMID = 70 k) COUND RUNUP (SUPPRESSED)) DELTA N = 0.0 DB ANGLE (DEGREES) ANGLE (DEG | F-16 AIRCRAFT IN THE | F-16 AIRCRAFT IN THE (AFTERBURNER POWER) HEREOROLOGY! F-16 AIRCRAFT IN THE (AFTERBURNER POWER) BAR PRESS =29.92 IN HG) FAR-FIELD NOISE (GROUND RUNUP (SUPPRESSED)) RELHWIND = 70 %) (GROUND RUNUP (SUPPRESSED)) DELTA N = 0.0 DB) DISTANCE ANGLE (DEGREES)) ARCHE (DEGREES) ARCHE (DEGREES)) ARCHE (DEGREES)) ARCHE (DEGREES) ARCHE (DEGRE | F-16 AIRCRAFT IN THE | NOISE SOURCE/SUBJECT: | NOISE SOURCE/SUBJECT: | F-16 AIRCRAFT IN THE (AFTERBURNER POWER) HEREOROLOGY TEMP T | FARCES METECROLOGY FEM | F-16 AIRCRAFT IN THE (AFTERBURER POWER) HETECROLOGY | PETER SOUNCE C'SUBJECT! F-16 AIRCRAFT IN THE (AFTERNIAR POWER) HETEOROLOGY! F-16 AIRCRAFT IN THE (STAFFRIANCE ENGINE) HETEOROLOGY! FAR-FIELD NOISE FAR-FIELD NOISE FAR-FIELD NOISE FAR-FIELD NOISE FAR-FIELD NOISE TEMPORESSED)) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES) DELTA N = 0.0 DB ANGLE (DEGREES | Partic Course C | NOTSE SOURCE/SUBJECT: F-16 AFTERBURNER POWER F-26 AFTERD NOTSE FAR-FIEL | FIGURE SQURCE FSUBJECT IN THE REPORTER POWER POWER POWER POWER POWER PARCELS STANDLE S | NOTSE SOURCE SUBJECT | FARCE SUBJECT NOTICE COPERATION NOTICE CONTROL | FIGURE SURCEF SUBJECT |

| (TABLES | TONE | TONE-CORRECTED, | | PERCEI VE | VED NOISE | E LEVEL | (PNDB) | 8 | | | | | ! | | | LOENTI | FICATI | ION | |
|----------------|---|---|--------------|----------------|-----------------------|----------|-------------------|--------------------------------|----------------|--------------|--------------|---------------------------------|---------------------------|--------------|--------------|------------------------------------|--------------|----------------------------|-----------------|
| | AS A | FUNCTION | N OF | ANGLE A | 2 | DISTANCE | FROM SI | SOURCE | | | | | | | |) TEST ? | 5 | 6-001 | |
| SION | SOURCE/SUBJECT 16 AIRCRAFT IN 32A-25 SUPPRES R-FIELD NOISE | E SOURCE/SUBJECT: F-16 AIRCRAFT IN THE AF32A-25 SUPPRESSOR FAR-FIELD NOISE | | | OPERA S S | TION | BURNER POR ENGINE | POWER NE IP (SUPPRESSED) | SSE 0) | ¥ 2 | 1 | PRESS HUMID | = 59 =29.92 = 70 | FIN X | | AIRCRAFT OPERATION PROFILE PAGE E4 | -5~ | CODE 7 CODE 0 ERSION | 36 0103 A |
| (OISTANCE | | 10 | 92 | 36 | 3 | 200 | 99 | 9 2 | ANGLE | 2 6 | EGREES) | 110 | 120 | 130 | 146 | 150 | 166 | 170 | 190 |
| 200 | 109.9 | 110.5 | 109. | 108. | 102.8 | 103.1 | 101.1 | 99.6 | 9.1 | 100.1 | 99.8 | 100.7 | 99.4 | 99.3 | -1 0 | 7 | 00.3 1 | | 03.5 |
| 315 | 105.6 | | 105 | 103 | 8 | 98.7 | 96.8 | 95.2 | 93.5 | 95.7 | 95.5 | 96.4 | 95.0 | 6.46 | | | 95.9 | . ف | 99.3 |
| 205 | 103.0 | | 102. | 101 98. | 96.2 93.9 | 96.5 | 94.5 | 95.9 90.6 | 91.2 88.8 | 93.5 91.1 | 93.3 91.0 | 94.1 | 92.7 | 92.7 90.4 | . | . | 93.7 91.3 | 94.4 92.1 | 97.1 |
| (630 (800 | 98. 6 96. 1 | 98.8 | 98.0 | 96, 3 93, 6 | 40 | 91.7 | 89.7 | 88.1 | 86.3 83.7 | 88.6 | 8 % ¢ | 89.1 86.4 | 84.9 | 87.9 | 86.6 83.8 | 86.6 83.8 | 88.7 | 6. | 92.4 |
| | | (| ; | ; | | ; | | | , | | | | | ; | | | , | , | |
| 1250 | 906 | 89° | 92°4 89°4 | 90°8 | 8 8 9 8 8 | 88.7 | 84.5 81.8 | 82.8 80.0 | 81. U 78. 2 | 83.3 | 82.6 79.4 | 83. 4 80. 1 | 81.9 78.6 | | 77.7 | 77.7 | 82.9 | 84.6 81.9 | 84.6 |
| 1600 | 87.6 | 96 | 96 | 9 . | 80.5 | 60.8 | 78.8 | 77.0 | 75.1 | 0 | 76.0 | 76.5 | 75.3 | σ. | ~ = | ۰ و | + 4 ¢ | 78.9 | 81.7 |
| 2500 | 0.00 | | . 6 | 72. | 1 % A | 73.9 | 71.8 | 69.6 | 9.29 | o 20 | 68.1 | 66.5 | 68.0 | ם מי | . o | 2 N | n -4 | 72.1 | 7.4.7 |
| 3150 | | | | 23 | 6 9° 4 | 69.8 | 67.5 | 65.7 | 63.4 | -4 - | 63.6 | 64.3 | 63.8 | . | | 16 1 | | 67.8 | 70.3 |
| 2000 | 66.6 | | 65. | 9 | 59.7 | 60.2 | 57.7 | 55.4 | 50.7 | -1 40 | 52.8 | , 6 , 6 , 6 , 6 , 7 | 5 6 6 5 6 6 5 7 6 6 | 0 M | v v | n m | N 69 | 56.0 | 68.1 |
| (6300 | | | 60 | 5 | | 54.9 | 55.5 | 50.5 | 46.8 | | 46.9 | 48.2 | 47.9 | | | | . | 52.5 | 54.7 |
| 0000 | 57.0 | 52. | 55.6 | | 50.1 | 50.7 | 48.1 | 45.5 | 41.9 | ~ | 42.1 | 43.7 | 43.2 | 4 | 6 | 9 | | +0.4 | 50.6 |
| 10000 | 52.2 | | 51. | 49 | 45.3 | 46.0 | | 39.9 | | 39.5 | | 38. 3 | • | • | • | 4 | • | 43.6 | 46.0 |
| (12500 | 47.1 | | 45 | * | | 40.1 | | 33.9 | 29.9 | 33.7 | | 32.6 | ~ | _ | _ | 30.2 | - | 37.9 | 40.5 |
| 16000 | 41.3 | 38. | 39.5 | 37. | | 33.7 | | 27.4 | | 27.3 | | 24.7 | | _ | m | 4 | 6 | 31.6 | 34.7 |
| 20000 | 33,9 | | 31.7 | Ň. | 22.5 | 27.3 | 22.9 | 17.4 | | 16.4 | 14.8 | 10.1 | | | 13.9 | ı, | 18.3 | 24.4 | 26.3 |
| 22062 | 25.5 | 21. | 21.5 | 9 | | 15.4 | | *: | | 5.5 | | | _ | | | | _ | 13.7 | 16.8 |
| (| | | | | | | | | | | | | | | | 1 | | | |

| | AS A F | FUNCTION OF | | ANGLE A | AND DIS | TANCE | FROM S | SOURCE | | | | | | | |) OMEGA | OMEGA 8.2 Test 79-738-001 | 8-601 | |
|-------------------------------------|--|-----------------------------------|---------|---------|---|-------|-------------------------------------|----------------------|---------|------|--|----------------|----------------------------|------------|------|---|------------------------------|-----------------------|---------------------|
| NOISE SOL F=16 AF324 FAR-F | E SOURCE/SUBJECT: F-16 ARCRAFI IN THE AF3ZA-25 SUPPRESSOR FAR-FIELD NOISE | BJECTS FT IN PPRESS OISE | 1 | | OPERATIONS AFTER SINGLE GROUNG | | JRNER POWER ENGINE RUNUP (SUF | OWER (SUPPRESSED) | ESSE D) | 7000 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | = 59,92 = 29,92 = 70 | Z H | | HON 04 AIRCRAF OPERATI PROFILE 28 NOV PAGE F | _ F 0 0 0 0 | CODE CODE RSION | 738 00103 A |
| (OISTANCE 0 10 | 0 | 10 | 29 | 30 | 3 | 50 | 0.9 | 9,2 | ANGLE | 1 | (DEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 94.2 | 95.5 | 95.0 | _ | 89.2 | 89.6 | 97.1 | 85.8 | 83.8 | 84.9 | 85.2 | 85.4 | 84.3 | m | 83.1 | 83.1 | 85.5 | 86.7 | 6.99 |
| 250 | 92.1 | 93.4 | 92.9 | 91.5 | | 87.5 | 85.1 | 83.7 | 81.7 | 62.9 | 83.1 | 83.3 | 82.3 | 83.2 | 81.1 | 81.0 | 83.4 | 84.7 | 86.8 |
| 0 t d | 9 4 6 6 | 89.0 | 86.6 | | 4 6 6 | 83.3 | 90.0 | 79.67 | 77.6 | 78.7 | 79.0 | 79.1 | 78.1 | . . | 76.9 | 76.8 | 79.2 | 80.5 | 82.7 |
| 200 | 85.6 | 86.7 | 86.3 | | | 81.1 | 7.8.7 | 77.2 | 75.2 | 76.5 | 76.7 | 76.9 | 75.9 | . 5 | 74.7 | 74.6 | 77.0 | 78.4 | 89.6 |
| 630 | 83,3 | 84.4 | 84.0 | _ | 6 | 78.9 | 76.5 | 75.6 | 73.0 | 74.2 | 74.4 | 74.6 | 73.5 | ~ | 72.5 | 72.3 | 74.8 | 76.2 | 78. |
| 9 9 | 8 1. C | 82.0 | 81.7 | _ | Ġ | 76.6 | 74.2 | 72.7 | 70.6 | 72.0 | 72.0 | 72.1 | 71.1 | r. | 70.5 | 70.0 | 72.5 | 74.8 | 75. |
| 1400 | 78.6 | 79.6 | 79.2 | | 73.9 | 74.3 | 71.9 | 70.3 | 66.2 | 9.69 | 69.5 | 69.6 | 68.6 | 70.1 | 61.9 | 67.6 | 70.1 | 71.7 | 73.6 |
| 1250 | 76.2 | 77.0 | 7.92 | 75.3 | 71.4 | 71.8 | 69.5 | 67.8 | 65.7 | 67.0 | 66.7 | 6 • 99 | 66.0 | 67.5 | 65.4 | 65.1 | 67.6 | 69.3 | 71.1 |
| 1606 | 73.6 | 74.3 | 74.1 | _ | 68.9 | 69.3 | 67.0 | 65.2 | 63. | 4.49 | 63.8 | 64.0 | 63.2 | 65.0 | 62.8 | 62.4 | 65.1 | 6 • 9 9 | 68. |
| 2000 | 71.0 | 71.5 | 71.3 | _ | 66.2 | 299 | 54.4 | 65.5 | 60.3 | 61.7 | 60.7 | 61.0 | 69.3 | 62.4 | 60.1 | 59.7 | 62.4 | 64.3 | .99 |
| 25 i.i | 68.1 | 68.5 | 68.3 | _ | 63.1 | 63.6 | 61.3 | | 57.1 | 58.6 | 57.3 | 57.7 | 57.1 | 59.5 | 57.0 | 56.7 | 59.3 | 61.3 | 63. |
| 3150 | 64.8 | 65.2 | 64.9 | _ | | 60.2 | 57.8 | 56.0 | 53.7 | 55.1 | 53.6 | 54.1 | 53.4 | 55.7 | 53.5 | 53, 3 | 55.9 | 57.1 | 59.6 |
| 0004 | 61.1 | 61.5 | 61.2 | 59,9 | 56.0 | 56.5 | 54.6 | 52,3 | 6 • 6 + | 51.3 | 49.5 | 50.1 | 49.5 | 51.8 | 48.7 | 49.5 | 52.1 | 53,8 | 55.6 |
| 50.00 | 56.9 | 57.5 | 57.1 | ŝ | | 52.3 | 49.7 | 48.1 | 45.6 | 47.1 | 45.2 | 45.9 | 45.2 | 47.5 | 45.5 | 45.3 | 47.9 | 4.64 | 51. |
| 6300 | | 53.1 | 52.7 | 4 | 47.3 | 47.8 | 45.2 | 43.7 | 41.2 | 42.7 | 40.7 | 41.5 | 43.8 | 43.0 | 41.0 | 6.04 | 43.4 | 6.44 | 46 |
| 9000 | | 49.0 | 4 9 . 8 | | | 44.2 | 41.7 | 0.04 | 37.5 | 39.1 | 37.1 | 37.9 | 37.3 | 39.5 | 37.5 | 37.3 | 39.9 | 41.5 | 43. |
| 10000 | 45.0 | 44.6 | 44.5 | | 39,7 | 40.3 | 37.8 | 36.0 | 33.5 | 35.2 | | 34.0 | R | 35.7 | 33.7 | 33.4 | 36.1 | 37.8 | 39.7 |
| 12500 | 40.7 | 39.9 | 40. | | ŝ | 36.0 | 33.7 | 31.6 | 29.1 | 31.0 | | 30.0 | ß | 31.6 | 29.5 | 29.2 | 31.9 | 33.8 | 35.7 |
| 16000 | 36.0 | 34.9 | 35.0 | | ċ | 31.3 | 29.1 | 26.9 | 24.5 | 26.4 | | 25.6 | N | 27.1 | 25.1 | 24.7 | 27.5 | 29.5 | 31.6 |
| 20000 | 30.9 | 29.5 | 29.7 | 28.5 | 25.7 | 26.2 | 24.5 | 21.8 | 19.5 | 21.5 | 20.5 | 21.2 | 20.7 | 22.3 | 20.3 | 19.9 | 22.7 | 24.8 | 26.8 |
| | | | | | | | | | | | | | | | | | | | |

| | AS A | FUNCTION OF | 9 | ш | AND DIS | | FROM S | SOURCE | | | | | | | |) OMEGA | OMEGA 6.2 TEST 79-738-681 | 8-681 | |
|--------------------|-------------------------------|-----------------------------------|------|------------------|------------------------------|-------|--------|----------------------------|-------------|-------|--|----------------|------------------------|-------|-----------------------|---|------------------------------|--------------------------|-------------------|
| Sio | AIRCE/ AIRC 125 IELO | BJECTS FT IN PPRESS OISE | } | | OPERATION AFTER SINGLE | ! _ 🗟 | | POWER E (Suppressed) | ESSED) | 20000 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUNID | = 59 =29,92 = 70 | A N N | V 6 5 1 1 | AIRCRAFI OPERATI OPROFILE DAGE NOV | . + 2 ≥ 0 + | CO DE CO DE RS 10N | 736 80103 A |
| DISTANCE (FEET) | 0 | 97 | 20 | SE SE | 3 | 50 | 9 | 92 | ANGLE 80 | 08 | EGREES) 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 188 |
| 200 | 95.6 | 96.1 | 95.6 | . | ø, | 9.6 | 87.1 | 65.8 | 83.8 | 86.0 | 85.2 | 85.4 | | 85.3 | 83.1 | 63.1 | 85.5 | 86.7 | 89.4 |
| 315 | 900 | 91.0 | 91.0 | 8 9 9 9 | 85.1 | 85.4 | 83.0 | 81.6 | 79.6 | 81.8 | 81.1 | 81.0 | 80.2 | 81.2 | 79.0 | 78.9 | e M | 82.6 | 85.1 |
| 90.4 | 89.2 | 9.68 | 89.1 | | ึ่ | 83,3 | 80.9 | 79.4 | 77.4 | 79.7 | 79.0 | 79.1 | 78.1 | 79.1 | 76.9 | 76.8 | ~ | 80.5 | 63 |
| 200 | 87.0 | 87.3 | 86.9 | ŝ | 80.8 | 81.1 | 78.7 | 77.2 | 75.2 | 17.6 | | 76.9 | 75.9 | 76.9 | 74.7 | 74.6 | | 78.4 | 81.1 |
| 630 | 9 | 85.0 | 94.0 | m, | ø, | 78.9 | 76.5 | 75.0 | 73.0 | 75.3 | 74.4 | | 73.5 | 74.7 | 72.5 | 72.3 | 6 0 i | 76.2 | 78. |
| 9 | 92.5 | 82.6 | 82.2 | å | 76.3 | 76.6 | 74.2 | 72.7 | 9.0 | 13.0 | 1.5.0 | 15.1 | 7:1 | 72.5 | 7.0.2 | 9.0 | | B • • • | 9 |
| 1000 | 80.1 | 89.1 | 79.8 | • | 73.9 | 74.3 | 71.9 | 70.3 | 68.2 | 7007 | 69.5 | 69.6 | 68.6 | 70.1 | 6 | 67.6 | - | 71.7 | 74.3 |
| 1250 | 77.6 | 77.6 | 77.3 | 75,9 | 71.4 | 71.8 | 59.5 | 67.8 | 65.7 | 68.1 | 66.7 | 6 • 99 | 66.0 | 67.6 | | 65.1 | • | 69.3 | 71.9 |
| 1600 | 75.1 | 74.9 | 74.6 | | 68.3 | 69,3 | 67.0 | 65.2 | 63.0 | 65.5 | 63.8 | 64.0 | 63.2 | 65.0 | 60 | 62.4 | - | 66.9 | 69.4 |
| 2,00 | 72.4 | 72.1 | 71.9 | • | 66, 2 | 66.7 | 64.4 | 62,5 | 60.3 | 62.7 | 60.7 | 61.0 | 69.3 | 62.4 | | 59.7 | . | 64.3 | 66.8 |
| 2500 | 69.5 | 69.1 | 68.9 | | 63,1 | 63.6 | 61.3 | 59.4 | 57.1 | 28.1 | 57.3 | 57.7 | 57.1 | 59.5 | | 56.7 | m | 61.3 | 63.1 |
| 3150 | 66.2 | 65.8 | 65.5 | • | 59,7 | 60.2 | 57.8 | 56.4 | 53.7 | 56.2 | 53.6 | 54.1 | 53.4 | 55.7 | W | 53.3 | 6 | 57.7 | 60.1 |
| 4000 | 62.5 | 62.0 | 61.7 | • | 26.0 | 56.5 | 54.0 | 52, 3 | 69.6 | 52.2 | 49.5 | 50.1 | 49.5 | 51.8 | | 49.5 | _ | 53.8 | 56.1 |
| 5000 | 57.8 | 57.8 | 57.5 | | | 52.3 | 49.7 | 48.1 | 45.6 | 47.7 | 45.2 | 45.9 | 45.2 | 47.5 | ı. | 45.3 | ot o | 48.4 | 51.5 |
| 0 | 53.1 | 53,3 | 52.9 | • | 47.3 | 47.8 | 45.2 | • | 41.2 | 43.1 | 40.7 | 41.5 | 40.8 | 43.0 | | 40.9 | . | 6.44 | 6.9 |
| 8000 | 49.2 | 49.1 | 48.9 | | | 44.2 | 41.7 | 40.0 | 37.5 | 39.3 | 37.1 | 37.9 | 37.3 | 39.5 | | 37.3 | C P | 41.5 | 43.4 |
| 10000 | 45.0 | 44.6 | 4.0 | m | 39.7 | 40.3 | 37.8 | 36.0 | 33.5 | 35.2 | 33, 3 | 34.0 | 33.5 | 35.7 | 33.7 | 33.4 | | 37.8 | 39.7 |
| 12500 | 40.7 | 39.9 | 40.0 | ě | 35.4 | 36.0 | 33.7 | 31.6 | 29.1 | 31.0 | 29.5 | 30.0 | 29.5 | 31.6 | 29.5 | ~ | _ | 33.8 | 35.1 |
| 16000 | 36.0 | 34.9 | 35.0 | 33.8 | 30.8 | 31.3 | 29.1 | 26.9 | 24.5 | 26.4 | 24.9 | 25.6 | 25.2 | 27.1 | 25.1 | 24.7 | 27.5 | 29.5 | 31.4 |
| 20000 | 30.9 | 29.5 | 29.7 | å | 25.7 | 26.2 | 24.2 | 21.8 | 19,5 | 21.5 | 20.5 | 21.2 | 23.7 | 22.3 | 20.3 | 6 | | 24.8 | 26.8 |
| | | | | | | | | | | | | | | | | • | | | |

| MARONOW MINOR SAM MINOR NAM MINOR NAM MINOR NAM MINOR NAM MINOR NAM MINOR NAM NAM NAM NAM NAM NAM NAM NAM NAM NAM | A A A | DISTANCE = 250 E SOURCE/SUBJECT! F-16 AIRCRAFT IN THE AF32A-25 SUPPRESSOR FAR-FIELD NOISE (| DISTA RCE/S AIRCE -25 S IELD | DISTANCE = SOURCE/SUBJECTI 16 ATRCRAFT IN 32A-25 SUPPRESS R-FIELD NOISE | COT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | FEET | | OPERATE SIL | OPERATION: AFTERB SIAGE GROUND | ATION! AFTERBURNER POWER SINGLE ENGINE GROUND RUNUP (SUP | POW INE SPOW | OWER (Suppressed) | | | HETEOROLOGY: TEMP BAR PRESS REL HUNIO | ROLOG EMP OG EL HU | | = 59 = 29,92 = 70 0 08 | i rexii | N HG | | A PERCENT OF PROFILE PAGE | OMEGA 8.2 TEST 79-738-001 RUN RUN RUN OPERATION CODE PROFILE VERSION 28 NOV 79 PAGE 34 | 79-736-001 79-736-001 AFT CODE 11 O CODE LE VERSION V 79 | |
|--|------------|--|--|---|---|------|---|-------------|---|--|--------------------|----------------------|---|-------|---------------------------------------|--------------------------|---|---------------------------------|----------|-------|-----|---------------------------|--|---|--|
| WMMNOMO ZH MFOZÞ WMMNOMO ZH MFOZÞ W X X X X X X X X X X X X X X X X X X | | • | ب ٿ ب | • | • | • | • | • | • | | • | | • | • | • | • | • | • | • | • • • | - | • • • | • | • | |
| 10 | | 16 | | | | | | • • • | | • • • | | • • • | | • • • | | • • • | | • • • | | • • • | A × | • • • | | ۵ ۵ | |
| 150 THE CARP OF THE CARP 10 TH | | 30 | ے ہ | • | - | | • | | • | | • | • | • | • | • | • | • | • | • | • • | • | • • | • | • | |
| 14.0 F. M. M. M. M. M. M. M. M. M. M. M. M. M. | | 9 | | | | | | • • | | | | | | | | | | • • | × | • • | | • • | • | | |
| 24 | ∢ Z | 20 | | | | | | | | • • • | | | | | | | | ••• | × | • • • | | • 🚡 , | ۵. | | |
| 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ىئانىپ ڧ | 9 | ٠ | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | * , | • | • | • | • | • | |
| 140 (150 (| | . 8 | | | | | | | | • • • | | | | | | | | × | « | • • • | Q. | • • · | • | | |
| 140 140 140 140 150 150 150 160 160 160 | Z | 96 | د د | • | _ | • | • | | • | • | • | • | • | • | • | • | | • • | Į. | • | | | • | | |
| 110 120 130 140 150 | Ω W (| 100 | | • | | • | • | | , | • • • | • | • | • | • | • | • | • | • • • | | • • • | • | | • | • | |
| 120 (140 (140 (140 (140 (140 (140 (140 (14 | שמנ | 110 | | | | | | | | | | | | | | | | | × | • • | | • • | | | |
| 150 150 150 150 150 150 150 150 150 150 | א ואו ני | 120 | . . . | • | | | • | • | • | • | • | • | • | • | • | • | • | × | • | • • | • | • | • | • | |
| | • | 130 | | | | | | | | | | | | | | | | • • • | × | • • • | | • • • | | | |
| | | 140 | | | | | | | | | | • • • | | • • | | | | ×. | | • • • | Q. | • • • | | | |
| | | 150 | : | • | - | • | • | • | • | • | • | • | • | • | • | • | • | × | • | • | • | • • | • | • | |
| | | 170 | - | | | | | | | | | | | | | | | • • • | | • • • | | | | | |
| | | 180 | _:_ | | • | • | | | • | | • | | • | • | • | | • | • • • | × | • • • | • | • • • | • | • | |

| SUPPRESSOR Suppressor Suppressor | | | | | | | | | | SUPPRESSOR Suppressor Suppressor |
|---|-------------------|----------------|---------------------------------|---|---------|--|----------------------|---|---|--|
| NOISE NOISE NOISE | | | | | | | | | | NOISE NOISE NOISE |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | χ H Ο Ξ | F-100 F-100 |
| SUPPRESSOR SUPPRESSOR SUPPRESSOR | βY | | SZ | | Page | 162-167 168-173 174-179 | ARE PROVIDED: | SLE AND FRECTIENCY AND DISTANCE FROM SOURCE LEVEL ALL SOUND LEVEL AT 250 FEET FROM SOURCE | 1 | USAF USAF USAF USAF USAF F-100 NOISE SUPPRESSOR F-100 NOISE SUPPRESSOR F-100 NOISE SUPPRESSOR F-100 NOISE SUPPRESSOR F-100 NOISE SUPPRESSOR F-100 NOISE SUPPRESSOR F-100 NOISE SUPPRESSOR F-100 NOISE SUPPRESSOR F-100 NOISE SUPPRESSOR F-100 NOISE SUPPRESSOR |
| F-100 NOISE F-100 NOISE F-100 NOISE | SED ON THE GROUND | ISE SUPPRESSOR | DURING GROUND RUN-UP OPERATIONS | 77-730-001 17 CODE: 730 2 VERSION: A PROGRAM OMEGA 8.2 | | | THE FOLLOWING DATA A | ALIZED DATA AS A FUNCTION OF ANGLE AND FNORMALIZED SPL AT 250 FEET E LEVELS AS A FUNCTION OF ANGLE AND DIST PERCEIVED NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SOUND E LEVELS AS A FUNCTION OF ANGLE AT 250 F | A I R F O P C I | F-100 NOISE F-100 NOISE F-100 NOISE |
| SUPPRESSOR SUPPRESSOR | NOISE PRODUCED ON | F-100 NOISE | DURING GROUN | TEST AIRCRAFT PROFILE COMPUTER P | ng. | 53% RPM | SETTING, | ALIZED DATA AS A FUNCTION OF ANGLE NORMALIZED SPL AT 250 FEET ELEVELS AS A FUNCTION OF ANGLE ANI PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVA-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SELEVELS AS A FUNCTION OF ANGLE AT | E P C A C A C A C A C A C A C A C A C A C | SUPPRESSOR SUPPRESSOR SUPPRESSOR |
| NOOINE NOOINE NOOINE NOOINE | | | | | Setting | e Power, 53% R ine Runup, 70% itary Power, 9 erburner Power | EACH POWER | WALIZED DATA AS NORMALIZED SPL BE LEVELS AS A PERCEIVED NOISI TONE-CORRECTED A-WEIGHTED OVEL TONE-CORRECTED | # # # # # # # # # # # # # # # # # # # | NOISE NOISE NOISE |
| 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | Power | Idle Pow Engine R Military Afterbur | FOR EACH | NORMALIZ NOISE LE PERC TONE A-WE NOISE LE | 0 L C C C C C C C C C C C C C C C C C C | F-100 F-100 F-100 |
| SUPPRESSOR SUPPRESSOR SUPPRESSOR | | | | | | | | | 4 2 3 04 5 H | USAF USAF F-100 NOISE SUPPRESSOR USAF F-110 NOISE SUPPRESSOR USAF F-140 NOISE SUPPRESSOR |
| F-118 NOISE F-118 NOISE F-118 NOISE | | | | | | | | | | F-100 NOISE F-110 NOISE F-110 NOISE |

| TABLE | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 250 | D PRES | SSURE | LEVEL | (80) | _ | | | | | | | | H | DENTIFICATION OMEGA 8.2 TEST 77-730-0 | FICATI 8.2 77-730 | 10N t | |
|------------------------------------|--|----------------------|------------|------------------|--|---|-------------|--------------------|-------------|--------------------|--|--------------------------|--------------------------|---|------------|--|-------------------------|-----------|-------------------|
| ISE SOURC F-100 NOI AF32A-16 | /SUBJECT : E SUPPRESSOR | T I E SS OR | | OPER SI SI | RATIONS DLE POWER INGLE ENG ROUND RUN | 8 8 8 9 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | . %~ | RP# SUPPRESSED) | E0 (0) | AETE BA OELT | TEOROLOGY: TEMP BAR PRESS REL HUMID | 678 SS = 2 ID = 0. | 59 9,92 70 0 08 | F NIN HG | | AIRCRAFT OPERATION PROFILE V 28 NOV 79 PAGE C1 | | CODE | 730 00113 A |
| BAND CENTER FREG (HZ) | 9 | 10 | 20 | 30 | 9 | 50 | 9 | ZO ANO | NGLE (| DEGRE 90 | ES) | 110 | 120 | 130 | 071 | 150 | 160 | 170 | 180 |
| 50 | 9 | 65 | 63 | 65 | † 9 | \$ | 63 | 64 | * | 65 | 49 | \$ 9 | 9 | 65 | 99 | 69 | 69 | 68 | 67 |
| | 89 | 89 | 65 | 99 | 29 | 99 | 99 | 29 | 65 | 99 | 99 | 20 | 70 | 99 | 29 | 89 | 20 | 99 | 99 |
| 9 | 29 | 9 | 65 | 68 | 65 | 29 | 65 | 99 | 29 | 99 | 29 | 69 | 69 | 29 | 29 | 49 | 9 | 49 | \$9 |
| 100 | 62 | 9 | 65 | 68 | 65 | 29 | 7.0 | 7. | 7.7 | 69 | 29 | 99 | 29 | 29 | 99 | 99 | 9 | 29 | 9 |
| 125 | ري د د د د | 25 | 2 9 | 9 | 20 | 5 20 | € | 61 | 19 | 9 | \$ (| 61 | 62 | 63 | 61 | 63 | 9 | 10 | 20 |
| 106 | ر د م | 7 9 | 19 | 7 4 | , c | 75 | מ מ מ |) Z | ر د د | ر د م | ر د م | 7 2 | т С | D 0 | 7 U | 9 u | 76 | 7 L | 4 C |
| 250 | 2 C | 200 | 9 | 27 | 20 | 57 | i N | 2 0 | 9 '0 | 9.0 | , r _U | 2 . | , 6 | , 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 20 | 0 00 | 2 0 | , r | , iv |
| 315 | 54 | 55 | 23 | 54 | 52 | 56 | 25 | 22 | 2 | 52 | 24 | 25 | 26 | 53 | 22 | 53 | 53 | 52 | 23 |
| 004 | 25 | 20 | 56 | 55 | 26 | 54 | 64 | 53 | 51 | 51 | 51 | 51 | 20 | 51 | 20 | 53 | 25 | 22 | 55 |
| 200 | 58 | 21 | 52 | 53 | 26 | 54 | 20 | 24 | 53 | 54 | 55 | S. | 53 | 52 | 53 | 25 | 55 | 5 | 53 |
| 630 | 23 | 9 | 52 | 53 | 22 | 55 | 25 | 26 | 52 | 25 | 53 | 58 | 26 | 57 | 22 | 61 | 28 | 52 | 54 |
| 900 | 5 | 64 | 2 6 | 26 | 25 | 58 | 96 | ر. ق | 9 | 9 | 63 | 63 | 61 | 6 2 | 6 0 | 63 | 9 | 61 | 57 |
| 1300 | 52 | 4 8 | 25 | 28 | 28 | 58 | 21 | 1 9 | 79 | 69 | 63 | 63 | 63 | \$ | 63 | 62 | 61 | 61 | 53 |
| 1250 | 29 | 25 | 25 | 2 3 | 58 | 29 | 23 | 63 | 9 | 62 | 62 | 69 | 63 | 63 | 62 | 65 | 4 9 | 58 | 61 |
| 1600 | 25 | 74 | 20 | 21 | 58 | <u>.</u> | 58 | 62 | 62 | 62 | 61 | 61 | 63 | 63 | 62 | 79 | 61 | 22 | 25 |
| 2000 | 51 | Ę, | 52 | 52 | 26 | 53 | 23 | 62 | 62 | 6 2 | 62 | 63 | 63 | 63 | † 9 | 29 | 61 | 5 5 | 26 |
| 2500 | 25 | 4 | 2 9 | 21 | 58 | 61 | 23 | 61 | 61 | 62 | 62 | 61 | 49 | 63 | 63 | 63 | 61 | 58 80 | 26 |
| 3150 | 4 3 | ‡ | 26 | 26 | 26 | 25 | 26 | 23 | 53 | 62 | 61 | 61 | 29 | 63 | 49 | 49 | 20 | 57 | 25 |
| 0004 | 47 | ‡ | 22 | 52 | 58 | 23 | 52 | 60 | 9 | 6 2 | 9 | 61 | 63 | 65 | 65 | 9 | 61 | 26 | 25 |
| 5306 | 4 4 | 42 | 25 | 52 | ž | 55 | 25 | 25 | 28 | 23 | 25 | 5 8 | 61 | 62 | 62 | 62 | 58 | 54 | 64 |
| 6300 | 41 | 9 | 25 | 2 | 26 | 52 | 25 | 21 | 25 | 20 | 26 | 55 | 2 3 | 9 | 29 | 9 | 26 | 21 | £4 |
| 60 | 38 | 37 | 4 | 64 | 21 | 20 | 4 | 53 | 24 | 96 | 25 | 55 | Š. | 55 55 | 53 | 24 | 20 | 45 | 9 |
| 10000 | 34 | 35 | ‡ ‡ | 42 | | 14 | \$ | 20 | 4 | 21 | 64 | 6 | 21 | 27 | 64 | 64 | 4 | 47 | 36 |
| OVERALL | *2 | 73 | 7.4 | 15 | 1,2 | 74 | 7.4 | 92 | 92 | 76 | 92 | 76 | 11 | 11 | 92 | 77 | 92 | * | 73 |
| | | | | | | | | | | | 1000 | | | | | | | | |

| . | RCE | 2 2 | NOISE LEVE ION OF ANG | Ψ w | (PNDB) AND DISTANCE | | FROM SOURCE | OURCE | | | | | | | 1 | DENTI OMEGA TEST | DENTIFICATIONS OMEGA 8.2 TEST 77-730-633 | 10N1 0-631 | |
|--------------------|------------------|-----------------|--------------------------|------|--|---|-------------|-----------------------|--------------|------|--|----------------|----------------------------|-----------|------|---|--|---------------------------|--------------|
| SION | CE/ NOI 16 | BUECT: SUPPR | ESSOR | | OPERATIONS IDLE P SINGLE GROUND | RATION: IDLE POWER 53% SINGLE ENGINE GROUND RUNUP (S | | % RPH (Suppressed) | ESSED) | | METEOROLOGY S TEMP BAR PRES REL HUMI DELTA N = | PRESS HUMIO | = 59.92 = 29.92 = 70 | FIX SI | | AIRCRAF OPERATI PROFILE 28 NOV PAGE | AIRCRAFT CODE 7 OPERATION CODE D PROFILE VERSION 28 NOV 79 PAGE D1 | CODE 7 CODE D RSION | 730 00113 |
| (DISTANCE (FEET) |] | 10 20 3 | 50 | 30 | 7 | 50 60 | | 20 | ANGLE 80 | - 5 | DEGREES) | 110 | 120 | 130 | 140 | 15e | 168 | 170 | 180 |
| 200 | 80.0 | 75.7 | 84.5 | 83.9 | 84.9 | 86.0 | 84.3 | 87.4 | 87.0 | 88.6 | 88.0 | 88.0 | 89.3 | 90.5 | 89.8 | 4.06 | 67.4 | 84.7 | 82.1 |
| 315 | 75.4 | 71.0 | 79.6 | 79.2 | 86.1 | 81.4 | 7.62 | 82.7 | 82.4 | 83.8 | 83.3 | 63,3 | | | _ | | | | 77.5 |
| 004 | 73.6 | 68.6 | 77.4 | 76.7 | 77.6 | 79.0 | 77.3 | 80.3 | 79.9 | 81.2 | 80.9 78.4 | 80.9 | 82.1 | | | 83.0 | 80.2 | | 75.1 |
| 630 | 67.9 | 63.4 | 72.2 | 74.5 | 72.3 | | 72.1 | 75.1 | 7.4.7 | 75.9 | 75.7 | 75.6 | | | | | | 72.6 | 70.07 |
| 009 | 65.2 | 63.5 | 9 • 6 9 | 68.7 | 69.5 | 71.0 | 69.2 | 72.3 | 71.9 | 73.1 | 72.9 | 72.7 | 74.0 | 74.6 | 73.9 | 74.6 | _ | | 67.2 |
| 1000 | 62.2 | 57.3 | 66.5 | 65.7 | 66.5 | 66.0 | 66.2 | 69.5 | 68.8 | 70.0 | 69.6 | 69.8 | | | | | | | 64.2 |
| 1250 | 0 . 8 . 1 | 53.7 | 63.2 | 62,3 | 63.2 | 64.7 | 62.8 | | 65.6 | 66.8 | 66.7 | 9 9 9 | | | | | | | 61.1 |
| 2010 | 51.6 | 4 4 50 0 | 55.6 | 56.6 | 50°5 | 57.2 | 55.5 | 56.7 | 56.1 58.4 | 59.2 | 50° | 55.1 59.5 | 64.1 69.3 | 60.2 | 59.0 | 66.55 | 56.3 | 56.3 | 53.8 |
| (2500 | 47.6 | 40.5 | 50.9 | 49.7 | 50.8 | 52.6 | 50.5 | | 54.0 | 54.7 | 55.0 | 55.3 | | | | | | | 49.3 |
| 3150 | 41.8 | 34.7 | 45.0 | 4.4 | 45.1 | 47.1 | 44.8 | | 6.64 | 49.7 | 49.9 | 50.3 | | | | | | ~ | 44.7 |
| | 36.7 | 27.0 | 38.6 | 36.5 | 39.2 | 40.8 2.7.2 | 36.4 | | 42.9 | 43.7 | 4 % 6 % 6 % | **** | | 45.0 | 44.1 | 45° | | | 39.6 |
| 6300 | 19.9 | 2.0 | 22.0 | 22.0 | 24.0 | 25.4 | 22.6 | | 29.7 | 30.5 | 31.0 | 32.8 | | | | | | 29.1 | 26.0 |
| 0000 | 8.5 | 1 | 7.1 | 9.5 | 6.6 | 11.6 | 13.3 | | 18.0 | 19.2 | 23.1 | 24.5 | | | | | | | 13.5 |
| 10000 | | | | | | | 3.9 | 6. 2 | 6. 2 | 6.7 | 12.2 | 12.6 | 7.6 | 16.9 | 7.5 | 14.2 | 11.9 | 7.3 | 1.0 |
| 16460 | | | | | | | | | | | • | | | | | | • | | |
| 25000 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | • |

| TABLES | TONE-CORRECTED, PERCEIVED AS A FUNCTION OF ANGLE AND | DRRECT! | CORRECTED, PERCE FUNCTION OF ANGL | RCEIVER NGLE AN | z | · | EL L'ANDES FROM SOURCE | URCE | | | | | | | |) OMEG | DENITE CALLONS OMEGA 8.2 TEST 77-730-601 | 100-0 | |
|-----------------------------|---|---------|--------------------------------------|--|---|--|---------------------------|--------|-------------|------|-------------------|-------------------------|------|------|---------------|------------|--|---|----------|
| NOISE SOU F-100 AF32A | RCE/SU NOISE | 120 | ESSOR | | 9 PE | ERATIONS IDLE PON SINGLE E GROUND R | E SE SE | PPRE | | | 19 £ K 1 Z | OGY : PRESS HUMID | | | | ~~~~~ | RUN 01 ARCRATICODE OPERATION CODE PROFILE VERSION 26 NOV 79 PAGE E1 | 1 FT CODE 7 ION CODE 0 E VERSION 79 | 2 7 30) |
| DISTANCE (FEET) | 0 | 91 | 10 20 | 36 | 3 | 20 6 | | 7.0 | ANGLE | - 0 | 0EGREES) 0 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 81.3 | 77.3 | 84.5 | 63.9 | 85.4 | | | 5.88.7 | 61.0 | | 98.0 | 88.0 | 89.3 | 90.5 | 6 0 .1 | | پ | 85.7 | 82.1 |
| 315 | 76.7 | 72.6 | 79.8 | 79.2 | 9 0 | | | | חו ח | | 63.3 | 83.3 | 84.5 | | t a | | າຄວ | | 7.50 |
| 400 | 74.3 | 70.2 | 77.4 | 76.7 | 78.1 | | | | - | | 80.9 | 80.3 | 82.1 | | | | PO 1 | | 75.1 |
| 5 40 6 3 6 | 71.9 | 65.0 | 74.9 | 74.2 | 75.6 | 75.4 | 73.5 | | 78,5 | 79.4 | 78.4 | 78.3 | 79.5 | 80.5 | 79.8 | 81.1 | | 76.2 | 72.6 |
| 0 7 8 | 66.5 | 62.1 | 4 • 6 9 | 68.7 | 70.1 | | | | | | 72.9 | 72.7 | 74.0 | | 6 | | | | 67.2) |
| 1900 | 63.5 | 50.9 | 66.5 | 65.7 | 67.0 | 68.0 | | | , | 70.8 | 69.9 | 69.8 | 71.0 | | - | _ | _ | | 64.2) |
| 1250 | 60.3 | 55.3 | 63.2 | 62.3 | 63.7 | 64.7 | | 67.3 | w 1 | 67.5 | 66.7 | 99 | 67.7 | | | • | σ, | | 61.1 |
| 2000 | 52.9 | 47.2 | 55.6 | 7 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 57.2 | 56.0 | | າທ | 60.0 | 59.3 | 59.5 | | | 0 0 | - ~ | o 10 | 57.3 | 53.8 |
| 2530 | 48.4 | 41.7 | 50.0 | 1.64 | 51.3 | 52.6 | | | ~ | 55.5 | 55.0 | 55,3 | | | ص | _ | _ | | 49.3 |
| 50 | 43.1 | 36.3 | 45.0 | 4 * 4 4 | 45,6 | 47.1 | | | v | 50.5 | 6 • 6 • | 50.3 | | 51.0 | | _ | | | 44.7 |
| 400¢ | 37.7 | 28.2 | 38,6 | 38.5 | 39,7 | 0 . | | | 40 r | 44.3 | 6 % | 44.7 | ٠. | | | ~ 1 | . | | 39.6 |
| 300 | 20.4 | 120 | 22.0 | 22.0 | 2 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | 25.6 | | | | 9 6 | 2000 | 200 | 200 | | 0 6 | | n # | | |
| 9000 | 8.8 | | 7.1 | 9 6 | 10.0 | 11.6 | | | ٧, | 19.3 | 23.1 | 24.5 | 21.8 | 23.7 | . 10 | | | 19.6 | 13.5 |
| 11586 | | | | | | | 8° 8 | 6.2 | 6.2 | 7.9 | 12.2 | 12.6 | 7.6 | 10.9 | 5.5 | 3.9 3.9 | 11.9 | 7.3 | 1.0 |
| 2000 | | | | | | | | | | | | | | | | | | | • |
| | | | | | | | | | | | 1 | | | | | | | | |

| NETECONCE/SUBJECT# CPERATION NETECOL OF NETECOL OF | (TABLE! | A-WEIGH | A-WEIGHTED OVERALL SO AS A FUNCTION OF ANGL | VERALL N OF AI | | UND LEVEL E AND DIST | (DBA) | FROM S | SOURCE | | | | | | | |) IDENTII) ONEGA) TEST | IDENTIFICATIONS OMEGA 8.2 TEST 77-738-881 | TION! | |
|--|--|---|--|-------------------|---------|--|-----------------------------------|---------------------------|-----------------|--------------|--------------|--|--------------|------------------------|--------------|----------------|--------------------------------|--|-------|-------------------|
| 66.8 61.9 69.8 69.6 70.5 71.7 70.2 73.8 73.6 74.5 74.3 64.7 65.8 61.9 69.8 67.6 66.3 69.5 66.1 71.6 71.4 72.3 72.1 64.7 59.8 67.6 67.6 67.6 68.3 69.5 68.1 71.6 71.4 72.3 72.1 69.2 67.6 67.6 67.6 68.3 69.9 67.6 67.6 67.6 67.6 67.6 67.6 67.6 | (NOISE SOI (NOISE SOI (F-101 (AF32) | JRCE/SU J NOISE 1-16 | BJECT & SUPPR | ESSOR | | 0 PP PP PP PP PP PP PP PP PP PP PP PP PP | TIONS DLE PO INGLE ROUND | WER 53 ENGINE RUNUP | X RPH (SUPPR | ESSED) | 2000 | ETEOROI TEM BAR BAR ELTA N | 000 | # 59 #29.92 # 70 | E I I | <u>ا</u> | PRUM PROPERTY PAGE | RUN 01 AIRCRAFT CODE OPERATION CODE PROFILE VERSIO 28 NOV 79 PAGE F1 | | 730 00113 |
| 66.8 61.9 69.8 69.8 71.7 71.2 73.8 73.6 74.5 74.5 74.3 64.7 69.3 64.7 59.8 67.6 67.6 68.3 69.5 68.0 71.6 71.4 72.3 72.1 62.5 57.6 65.4 65.3 66.8 67.2 65.7 69.3 69.1 71.0 69.9 61.4 55.5 67.1 63.0 67.2 67.3 67.0 66.8 67.7 67.3 72.1 61.4 55.5 67.1 61.8 67.7 67.3 72.1 61.4 55.5 67.1 61.8 67.7 67.3 72.1 61.4 55.2 61.9 67.7 67.9 67.9 67.0 66.8 67.7 67.8 57.6 67.2 60.8 67.7 67.8 67.0 66.8 67.7 67.8 57.6 57.2 67.0 66.8 67.7 67.8 57.6 57.2 67.0 66.8 67.7 67.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 5 | (DISTANCE (CFEET) | 1 | 100 | • | | 3 | 50 | 09 | 7.0 | ANGL | | REES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 188 |
| 60.4 55.5 63.1 63.6 63.7 64.9 63.5 67.0 66.8 67.7 67.8 60.4 65.5 63.1 63.6 63.7 64.9 63.5 67.0 66.8 67.7 67.8 60.4 55.5 63.1 63.7 64.9 63.5 67.0 66.8 67.7 67.8 60.4 55.5 63.1 63.7 64.9 63.5 67.0 66.8 67.7 67.8 60.8 53.2 60.8 60.7 61.3 62.6 61.1 64.6 64.5 65.2 65.3 55.9 56.4 56.2 56.4 57.6 56.4 57.6 56.4 57.6 56.4 57.6 56.4 57.6 56.4 57.6 56.4 57.6 56.4 57.6 56.2 65.1 66.4 67.8 67.8 67.8 67.8 67.8 67.8 67.8 67.8 | 500 | 66.8 | 61.9 | 69.8 | 6.9.8 | 70.5 | 71.7 | 70.2 | 73.8 | 73.6 | 74.5 | 74.3 | 74.9 | 75.4 | 76.1 | 75.6 | 76.3 | 73.9 | 71.3 | 69.5 |
| 60.4 55.5 63.1 63.6 63.7 64.9 63.5 67.0 66.8 67.7 67.6 58.2 53.2 61.8 60.7 61.3 62.6 61.1 64.6 64.5 65.2 65.3 65.3 55.9 53.9 58.4 58.2 58.9 68.1 58.7 56.6 61.1 64.6 64.5 65.7 67.9 55.9 55.9 58.4 58.2 58.9 58.7 56.4 57.6 56.2 59.7 59.9 67.1 60.4 57.6 61.4 58.5 58.7 56.8 57.1 56.9 57.1 60.4 57.6 61.8 61.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 5 | 315 | 62.5 | 57.6 | 65.4 | 65°3 | , e 6 6 6 6 | 67.2 | 65.7 | 69.3 | 69.1 | 70.0 | 69.9 | 70.5 | 70.9 | 71.6 | 71.1 | 71.8 | 4.69 | 67.6 | 65.2 |
| 58.2 53.2 60.8 60.7 51.3 62.6 51.1 64.6 64.5 65.2 65.3 55.9 55.9 50.9 50.9 50.4 58.2 58.9 68.1 58.7 62.2 62.0 62.7 62.9 55.9 50.9 50.9 50.9 50.9 50.9 50.9 50 | 004 | 60.4 | 55.5 | 63.1 | 63° G | 63.7 | 6.49 | 63.5 | 67.0 | 66.8 | 67.7 | 67.6 | 66.2 | 9.89 | 69.2 | 68.7 | 69.5 | 67.1 | 64.7 | 65.9 |
| 53.6 46.5 55.9 56.4 57.6 56.2 59.7 59.5 67.1 60.4 57.6 66.2 55.7 62.9 57.6 46.5 55.6 57.1 56.9 57.2 56.4 57.6 56.2 59.7 59.5 60.1 60.4 57.6 66.2 59.7 59.5 57.8 46.6 43.3 57.1 56.9 57.2 56.9 57.2 56.9 57.8 46.6 43.3 57.7 47.6 40.2 47.8 47.6 40.2 47.9 40.2 54.3 57.7 57.3 40.3 37.7 40.8 47.7 45.2 46.9 47.7 45.3 47.9 40.5 40.9 40.7 57.3 40.5 41.6 41.6 41.6 41.5 42.1 43.0 41.7 45.3 45.1 45.4 46.2 33.4 27.4 34.5 34.6 34.9 37.7 45.3 46.9 34.7 45.3 37.7 40.8 33.4 27.6 34.5 34.6 34.9 41.7 45.3 45.1 45.4 46.2 33.4 27.4 34.5 34.6 34.9 41.7 45.3 45.1 45.4 46.2 33.4 27.4 34.6 34.6 34.8 33.7 39.6 33.2 41.9 41.7 45.3 34.1 45.1 45.2 33.1 45.4 46.2 33.4 27.4 34.6 34.6 34.8 33.4 27.8 25.8 29.7 29.8 29.6 31.1 20.9 14.9 21.6 21.8 22.2 22.8 22.2 25.8 29.7 29.8 29.6 31.1 20.9 14.9 21.6 21.8 17.8 17.8 17.9 16.1 20.0 14.9 20.8 20.8 21.8 11.6 5.1 20.1 11.6 12.8 17.8 17.8 17.9 10.7 14.5 14.3 14.6 16.5 6.7 5.9 6.8 7.8 18.3 17.8 17.8 17.9 17.8 17.8 17.8 17.8 17.8 17.8 17.8 17.8 | 200 | 28.5 | 53.5 | 60.8 | 60.7 | 61.3 | 9.29 | 61.1 | 9,40 | 64.5 | 65.2 | 65.3 | 65.8 | 66.2 | 9.99 | 66.3 | 67.0 | 64.6 | 62.4 | 66.7 |
| 51.2 46.8 53.3 53.1 53.7 54.9 53.6 57.1 56.9 57.5 57.8 48.6 643.4 51.6 51.4 51.0 52.2 510.8 54.3 54.2 54.7 55.1 46.0 48.6 47.8 47.6 48.2 49.3 47.9 51.5 51.3 51.7 52.3 45.3 37.7 44.8 47.6 48.2 46.3 44.9 48.5 48.3 51.7 52.3 49.3 37.1 44.8 44.7 45.2 46.3 44.9 48.5 48.3 45.1 52.3 51.7 52.3 57.6 51.6 51.6 51.6 51.8 51.7 52.3 57.6 51.6 51.6 51.6 51.8 51.7 52.3 57.6 51.6 51.6 51.6 51.6 51.8 51.7 52.3 51.7 52.3 51.6 51.6 51.6 51.6 51.6 51.6 51.6 51.6 | 909 | 55.9 53.6 | 66.00 0.00 | 9 6 9 6 9 6 | 55.7 | 0 0 0 0 0 0 | 51. 6 | 56.2 56.2 | 53°2 59°7 | 52.0 59.5 | 62.7 60.1 | 62°9 60°4 | 63.4 61.0 | 63.7 61.1 | 64.3 61.6 | 63.7 | 62.8 | 59°9 | 57.7 | 56. 56. 56. |
| \$46.6 \$43.4 \$10.6 \$10.4 \$1.0 \$52.2 \$10.8 \$54.3 \$54.2 \$54.7 \$55.3 \$46.0 \$40.6 \$47.8 \$47.8 \$47.9 \$1.5 \$51.3 \$51.7 \$52.3 \$45.0 \$40.5 \$40.8 \$47.8 \$47.9 \$1.5 \$51.3 \$51.7 \$52.3 \$45.0 \$40.8 \$40 | 1000 | 51.2 | 46.0 | 53,3 | | 53.7 | 54.9 | 53.6 | 57.1 | 56.9 | 57.5 | 57. A | 5.8.4 | 4.8.5 | 58.0 | 5.4.3 | 50.3 | 57.3 | 55.2 | 5,5 |
| 46.0 40.6 47.8 47.6 40.2 49.3 47.9 51.5 51.3 51.7 52.3 45.3 37.7 44.6 44.7 45.2 46.3 44.9 48.5 48.5 48.5 48.6 49.3 48.5 37.7 44.6 41.5 42.1 45.0 41.7 45.3 47.9 48.5 48.5 48.5 48.6 49.3 48.5 37.6 23.6 23.2 38.2 38.2 38.7 39.6 38.2 41.9 41.7 42.1 45.4 46.2 33.4 27.4 23.6 38.2 38.2 38.7 39.6 38.2 38.2 38.7 39.6 38.2 38.2 38.6 38.7 39.6 38.2 38.1 36.1 35.9 25.6 19.9 25.9 26.2 26.6 27.3 25.8 29.7 29.5 29.6 31.1 20.9 14.9 21.6 21.8 22.2 22.8 21.2 25.0 24.9 25.8 29.7 29.5 29.6 31.1 15.6 10.9 17.8 17.9 16.1 20.0 19.8 20.8 20.8 20.8 11.6 5.9 12.0 11.6 12.3 12.6 10.7 14.5 14.3 14.6 16.5 10.1 11.1 11.1 11.1 11.1 11.1 11.1 11 | 1250 | 48.6 | 43.4 | 50.6 | | 51.0 | 52.2 | 50.8 | 54.3 | 54.5 | 54.7 | 55.1 | 55.7 | 55.6 | 56.1 | 55.4 | 56.5 | | 52.6 | 51.0 |
| 43.3 37.7 44.6 44.7 45.2 46.3 44.9 48.5 46.3 48.6 49.3 48.3 37.7 44.6 44.5 45.1 45.1 45.1 45.1 45.1 45.1 45.1 | 1600 | 46.0 | 40.6 | 47.8 | . • | 48.2 | 49.3 | 47.9 | 51.5 | 51.3 | 51.7 | 52.3 | 52.9 | 52.7 | 53.2 | 52.4 | 53.6 | 51.8 | 6.64 | 48.3 |
| 37.6 31.2 38.2 38.2 38.2 38.2 38.2 38.2 38.2 38 | 2000 | 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 37.7 | 4 4 | | 45,2 | 46.3 | 4.0 | 40.5 | M + 40 + 4 | 9 4 | 6.0 | 20.0 | 49.6 | 20.1 | M 0 | 50.6 | 40.0 | 1.74 | 45.5 |
| 33.4 27.4 34.5 34.6 35.0 35.9 34.5 38.2 38.0 38.2 39.4 29.4 23.4 27.4 34.5 31.6 31.0 31.8 31.3 34.1 34.1 36.0 34.1 35.4 25.5 1.9 2.6 2 26.6 27.3 25.8 29.7 29.5 29.6 31.1 20.9 14.9 21.6 21.8 22.2 22.8 21.2 25.0 24.9 25.8 29.6 31.1 15.4 10.5 17.0 11.6 12.3 12.6 10.7 14.5 14.3 14.6 16.5 16.5 16.1 20.0 13.4 20.0 21.8 11.6 5.9 12.0 11.6 12.3 12.6 10.7 14.5 14.3 14.6 16.5 16.5 16.1 16.1 16.5 16.1 16.1 16 | 3150 | 37.6 | 31.2 | 38.2 | 38.2 | 30.7 | 39.6 | 38.2 | 41.9 | 41.7 | 42.0 | 42.9 | 43.6 | 43.D | 43.5 | 42.4 | 46.1 | 42.4 | 6 | 39.2 |
| 29.4 23.4 34.4 38.6 31.8 31.8 30.3 34.1 34.0 34.1 35.4 25.6 25.6 19.0 25.9 26.2 26.6 27.3 25.8 29.7 29.5 29.6 31.1 20.9 14.9 21.6 21.8 22.2 22.8 21.2 25.8 24.9 25.8 25.8 21.1 14.9 21.6 21.8 17.9 16.1 20.0 19.6 20.9 21.8 11.6 5.9 12.0 11.6 12.3 12.6 10.7 14.5 14.3 14.6 16.5 6.5 1.2 6.7 5.9 6.8 7.0 4.9 8.5 8.3 8.7 10.6 16.5 1.1 1.1 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 | 0004 | 33.4 | 27.4 | 34.5 | 34.6 | 35,0 | 35.9 | 34.5 | 38.2 | 36.0 | 38.2 | 39.4 | 40.1 | 39.3 | 39.8 | 38.7 | 40.5 | | 37.4 | 35.6 |
| 25,6 19,0 25,9 26,2 26,6 27,3 25,8 29,7 29,5 29,6 31,1 20,9 14,9 21,6 21,8 22,2 22,8 21,2 25,0 24,9 25,0 26,6 16,4 10,5 17,0 16,9 17,5 17,9 16,1 20,0 19,6 20,0 21,8 11,6 5,9 12,0 11,6 12,3 12,6 10,7 14,5 14,3 14,6 16,5 6,5 1,2 6,7 5,9 6,8 7,0 4,9 8,5 8,3 8,7 10,6 1,1 1,1 1,2 1,2 1,1 1,1 1,1 1,1 2,3 2,0 2,5 4,2 | 3000 | 29.4 | 23.4 | | 39.6 | 31.0 | 31.8 | 30.3 | 34.1 | 34.0 | 34.1 | 35.4 | 36.1 | 35.2 | 35.8 | 34.6 | 36.5 | 34.8 | 33.5 | 31.7 |
| 16-4 10-5 17-0 16-9 17-5 17-9 16-1 20-0 19-6 20-0 21-6 11-6 5-9 12-0 11-6 12-3 12-6 10-7 14-5 14-3 14-6 16-5 6-5 1-2 6-7 5-9 6-6 7-0 4-9 8-5 8-3 8-7 10-6 1-1 1-1 1-2 -1 1-0 1-1 2-3 2-0 2-5 4-2 | | 25° C | 19.0 | | 26.2 | 20°6 | 27.3 | 25.8 | 29.7 | 29.5 | 29°6 | 31.1 | 31.8 | 30.8 | 31.4 | 30.1 | 32.1 | 30.3 | 29.5 | 27.5 |
| 16.4 10.5 17.0 16.9 17.5 17.9 16.1 20.0 19.8 20.0 21.8 11.6 5.9 12.0 11.6 12.3 12.6 10.7 14.5 14.3 14.6 16.5 6.5 1.2 6.7 5.9 6.8 7.0 4.9 8.5 8.3 8.7 10.6 1.1 1.1 1.2 .1 1.0 1.1 2.3 2.0 2.5 4.2 | | ; | | | | | | | | | | | • | | | } | | | | |
| 11.6 5.9 12.0 11.6 12.3 12.6 10.7 14.5 14.6 16.5 6.5 1.2 6.7 5.9 6.8 7.0 4.9 8.5 8.3 8.7 10.6 1.1 1.1 1.2 1.1 2.3 2.0 2.5 4.2 | 10000 | 16.4 | | 17.0 | • | 17.5 | 17.9 | 16.1 | 20.0 | 19.8 | 20.0 | 21.8 | 22.3 | 21.1 | 21.0 | 20.4 | 22.7 | 21.8 | 20.4 | 18.1 |
| 1 1.1 1.2 .1 1.0 1.1 4.9 6.5 6.3 8.7 10.6 | 12500 | 11.6 | 5.0 | 120 | • | 12,3 | 12.6 | 10.7 | 14.5 | 14. | 16.6 | 16.5 | 16.8 | 15.5 | 16.3 | 7. 1. 1. | 17.3 | 15.3 | 15.4 | 12.6 |
| 1 1-1 1-2 -1 1-0 1-1 2-3 2-0 2-5 4-2 | 16908 | • • | 7•5 | • · | _ | å . | | • | | | 6.7 | 10.6 | 10.7 | 9.5 | 2.01 | 6. 7 | 11. | m (| F (| • |
| | 25000 | 1:1 | | 7.5 | rd • | | 1:1 | | 2•3 | | 2.5 | * •5 | | 3° E | 3.7 | 2.2 | | 5.9 | P • P | ŗ |
| | | | | | | | | | | | | | | | | | | | | |

| TABLE | TONE-CORRECTED, A-WEIG | TONE-CORRECTED, A-WEI | E0, A- | | HTED OVE | OVERALL SI | SOUND LI | רבאבר ננ | (D9A) | | | | | | | LOENT | DENTIFICATIONS | ONE | |
|--|------------------------|-----------------------|--------|----------|--------------------------------------|---|----------|-----------------------|-------------|---------------------------------|---------------------|------|-----------------|-----------------------|------|---|----------------|---------------------------------|---------------------------|
| | AS A F | A FUNCTION OF | N OF A | « | 2 | 141 | FROM S | SOURCE | | | | | | | | TEST | | 1-007 | • |
| NOISE SOURCE/SUBJECT F-116 NOISE SUPP AF32A-16 | 606 | BJECT 1 SUPPR | E SSOR | | 0 8 8 8 8 8 8 8 | RATIONS IDLE POWER SINGLE ENGI GROUND RUNU | | X RPH (Suppressed) | ESSE 0) | | : <u> </u> | SS | =29.9 = 29.9 | 9 F 2 IN HG 0 % | T | AIRCRAF OPERATI PROFILE 28 NOV | | CODE 7. N CODE 0. VERSION | 730) 00113) (A) |
| (DISTANCE (FEET) | 7 | 10 20 | 20 | 3E | 9 | 50 | 9 | 70 | ANGLE 80 | i - | (DEGREES) 90 100 | 110 | 120 | 130 | 140 | 150 | 160 1 | 176 | 160 |
| 230 | 63.1 | 63.4 | 69.8 | | 7.10.1 | 71.7 | 71.6 | 75.1 | 74.8 | 75.3 | 74.3 | 74.9 | 75.4 | 76.1 | 75.6 | 77.0 | | 72.3 | 69.5 |
| 250 | 66.0 | 61.3 | 67.6 | 67.6 | 689 | 69.5 | 4.69 | 72.9 | 72.6 | 73.1 | 72.1 | 72.7 | 73.2 | 73.9 | 73.4 | 74.8 | 72.8 7 | N | 67.3) |
| 010 010 100 100 100 100 100 100 100 100 | 61.7 | 57.0 | 63.1 | | 0 0 0 0 0 0 | 94.9 | 2.79 | 68.0 | 66.0 | 0 4 0 0 0 0 0 0 0 0 | 67.6 | , c | 68.6 | 69.2 | 68.7 | 78.1 | | | 7.69 |
| 200 | 59.5 | 54.8 | 66.0 | | 61.9 | 62.6 | 62.6 | 99 | 65.6 | 65.0 | 65,3 | 65.8 | 66.2 | 66.8 | 66.3 | 67.7 | | | 60.7) |
| 630 | 57.2 | 55.5 | 58.4 | | 59.4 | • | 60.2 | • | 63.2 | 63.5 | 65.9 | 63.4 | 63.7 | 64.3 | 63.7 | 65.2 | | | 58.4) |
| 908 | 54.9 | 53.1 | 55.9 | | 56.9 | 57.6 | 9.29 | 61.0 | 60.7 | 60.09 | 60.4 | 61.0 | 61.1 | 61.6 | 61.1 | 62.6 | | | 56.0) |
| 1640 | 52.5 | 47.6 | 53,3 | 53.1 | 54.3 | 54.9 | 55,0 | 58.4 | 58.1 | 58.2 | 57.8 | 58.4 | 58.4 | 58.9 | 58.3 | 6.00 | | 56.2 | 53.5) |
| 1250 | 20.0 | 6.4. | 50.6 | 50.4 | 51.6 | 52.2 | 52.3 | 55.7 | 55,3 | 55.4 | 55.1 | 55.7 | 55.6 | | 55.4 | 57.2 | 55.7 | | 51.0 > |
| 1600 | 47.4 | 42.2 | 47.8 | | 48.7 | 49.3 | 40.4 | 52.8 | 52, 5 | 55.5 | 52.3 | 52.9 | 52.7 | 53.2 | 52.4 | 54.3 | | • | 48.3) |
| 2000 | 44.6 | 39.3 | 44.8 | | 45.8 | 46.3 | 40.4 | 8.64 | 49.5 | 49.4 | 49.3 | 50.0 | 49.6 | 54.1 | 49.3 | 51.3 | | | 45.5) |
| (25.10 | 41.7 | 36.1 | 41.6 | | 45.6 | 43.0 | 43.1 | 46.6 | 46.3 | 46.2 | 46.2 | 46.9 | 46.4 | 46.9 | 45.9 | 48.1 | | | 45.5) |
| (3150 | 38.4 | 32.7 | 38.2 | | 39, 3 | 39.6 | 39.7 | 43.2 | 45.9 | 42.7 | 45.9 | 43.6 | 43.0 | 43.5 | 45.4 | 44.8 | | | 39.2) |
| 03 13 V | 34.5 | 28.7 | 34.5 | 34.6 | 35,5 | 35.9 | 35.6 | 39.3 | 39.0 | 38.9 | 39.4 | 40.1 | 39.3 | 39.8 | 38.7 | 41.1 | | | 35.6) |
| 2000 | 3.1.2 | ; | 30.4 | | 31, 3 | 31.8 | 31.2 | 9.0 | 34.7 | 34.6 | 35.4 | 36.1 | 35.2 | 35.8 | 34.6 | 36.9 | | | 31.7 |
| 6300 | 25.6 | 19.6 | 25.9 | 26.2 | 26.8 | 27.3 | 26.4 | 30.2 | 30.0 | 29.9 | 31.1 | 31.8 | 33.8 | | 30.1 | 32.3 | • | ٠ | 27.4) |
| 335 | 21.2 | 15.2 | 21.6 | ÷ | 22,3 | 22.8 | 21.5 | 25.3 | 25.1 | 25.2 | 56.6 | 27.3 | 26.2 | 26.8 | 25.5 | 27.7 | 26.0 2 | ~ | 22.9) |
| 10000 | 16.4 | 10.5 | 17.0 | | 17.5 | 17.9 | 16.1 | 20.0 | | 24.0 | 21.8 | 22.3 | 21.1 | 21.8 | 20.4 | 22.7 | _ | | 18.0) |
| (12500 | ÷ | 5.9 | 12.0 | 11.6 | 12.3 | 12.6 | 10.7 | 14.5 | | 14.6 | 16.5 | 16.8 | 15.5 | 16.3 | 14.8 | 17.3 | | | 12.6) |
| 16:00 | 5 | 1.2 | 2 • 9 | 5,9 | 6.8 | 7.0 | 6.4 | 8.5 | 8.3 | 8.7 | 10.6 | 10.7 | 9,5 | 10.2 | 9.7 | 11.4 | 9,3 | 6.6 | 6.7 |
| 2000 | 1.1 | | 1.2 | 7. | 1:0 | 1.1 | | 2.3 | | 2.5 | 4.2 | 4. | 3.0 | 3.7 | 2.2 | 2.0 | • | 3.9 | .5 |
| 00062 | | | | | | | | | | | | | | | | | | | ^ ^ |
| | | | | | | | | | | | | | | | | | | | • |

| | 013 | DISTANCE | 8 | | | | | | | | | | 5 ¥ 6 | · . | 8.2 -730 | -031 |
|----------------------|------------------|---|---|---------------------|---|----------------------------------|-----------------------|--------|--|-------|-----------------------|--|---------------|---|--------------------------------|--------------------------|
| OISE S F-1 AF3 | 30URCE 106 NC | 6 1 SE | NOISE SOURCE/SUBJECT! F-116 NOISE SUPPRESSOR AF32A-16 | <u> </u> | PERATION: IDLE POWER 53% A SINGLE ENCINE GROUND RUNUP (SU | MER 53% R ENGINE RUNUP (SU | X RPM (SUPPRESSED) |) METE | METEOROLOGY S TEMP BAR PRES REL HUMI DELTA N = | N 100 | 59 F 92 IN 70 % | ÷ | | AINCRAFT CODE 7 AIRCRAFT CODE 0 PROFILE VERSION 28 NOV 79 PAGE J1 | T COD ON COD VERSI 79 | E 738 E 00113 On A |
| | | | | d d | -PX-T | | A=AL | AL | | | * | T=ALT | | | | |
| | | ! . | • | | • | | | | | | | | | • | | |
| | :3 | : _ | • | • | • | • | • | • | • | • | A . | • | • | • | • | •• |
| | 97 | · · | • • | • • | • • | | • • | | • | (| = | • • | ۵ | • • | • • | |
| | 20 | | • • | • | • | | ••• | | • • | • | | · · | | ۵. | • | - |
| | 30 | | • | • | • • | • | • • | • | • | • | • | · · | • | • | • | ~ ; |
| | 4 | • | • • | • • | • • | | • | | • • | • | | • T • | | • • | • • | |
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| ∢ 2 | 50 | • | • | • | • | | • | | • | • | | * | | • | • | ~ ^ |
| <u>.</u> 0 | 90 | . : | • | • | • • | • | • • | • | • | • | • | AT. | • | • | • • | • |
| یا لــ | 200 | • | • | • • | • (| | • | | • | • | _ | 14 | | • | • | ~ ~ |
| J | : | | • • | • • | • • | | • • | | • • | • | | • • | | • • | | ` ~ |
| ∺ 2 | 90 | • | • | • | • | | • | | • | • | | . A T | _ | • | • | |
| E | 96 | . : | • | • | • • | • | • | • | • | • • | • | AT. | • | • | ٠. | • |
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| ی ن | ; | | • | • | • | | • | | • | • | | • • | | | • | • ~ |
| | 011 | • • | • (| • • | • • | | • | | • | • | | • | × | • | ۵. | |
| ıw | 120 | . : | • | • | • | • | • • | • | • | • | • | •••••••••••••••••••••••••••••••••••••• | · · · · · · · | • | ď | • |
| s) | 130 (| •• | • • | • • | • • | | • • | | • • | • • | | • • | × | | • • | |
| | 160 | • · | • • | • • | • • | | • | | • | • (| | • • | * | • • | ٥ | |
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| | 150 | ٠. | • | • | • | • | • | • | • | • | • | • | AT | • | • | • |
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| NATISE SUDFRESSOR CANADA C | IASEE: NORS | ALLES OCTAV ANCE | E BAN | . II | 5 |)) | 3 | _ | | | | | | | | OMEGA | 10. | 2 36-0°1 | |
|--|--|------------------------|---------|----------|----------|------------|---|-------------|--------------|-------------------|------------|----------|-------------|--------------|-------|---------------------------------|--------------------------|-----------------------|--------------|
| SAMO CENTER ANGLE COEGGESS FREQ (HZ) 0 10 110 120 140 150 110 120 140 150 160 110 120 110 150 160 160 160 160 160 160 160 160 160 160 160 160 160 160 160 170 | NOISE SOURCE NOISE | SUBJE | 7.5 | ď | 200 | M THE TENT | ENG ENG ENG ENG ENG ENG ENG ENG ENG ENG | I S S | 1 111 | G | ことのとし | IO DIZ | | 0000 FHX | \$ | ALACA OPERA PROFI PAGE | 75 110N 179 179 | CODE CODE ASION | . ₩ 3 |
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| 590 64 57 63 64 64 57 59 59 59 59 57 59 60 60 67 67 68 67 68 68 67 68 68 67 68 68 68 68 68 67 68 68 68 68 68 68 68 67 68 | 904 | † 9 | 20 | 65 | 62 | 62 | 62 | 61 | 79 | 9 | 09 | 6 | ī | Į, | 150 | | 25 | 5 | 60 |
| 636 61 56 63 63 62 63 61 61 61 62 62 63 63 64 64 65 66 66 67 66 68 63 65 63 63 63 63 63 64 64 65 65 65 65 65 65 65 65 65 65 65 65 65 | 905) | 49 | 25 | 63 | 63 | 62 | 63 | 19 | 9 | 53 | 53 | ~ | ī | S. | 9 | | 29 | 28 | 61 |
| 80 0 60 59 63 62 63 64 64 65 66 67 66 67 66 67 66 67 69 68 68 68 68 67 65 67 65 67 67 67 71 72 72 72 71 71 71 71 71 67 67 67 67 67 67 67 72 7 | 636 | 61 | 28 | 63 | 63 | 62 | 63 | 63 | 61 | 61 | 61 | ~ | 9 | 9 | • | | 63 | 61 | 61 |
| 1108 68 59 63 64 64 64 65 66 67 69 68 68 68 68 67 65 62 6 125v | 008 | 9 | 20 | 63 | 63 | 62 | 63 | 65 | 6 4 | 49 | 65 | 9 | •• | 9 | Ö | | 65 | 63 | 62 |
| 1531 54 62 62 65 65 65 66 67 70 72 72 71 59 70 71 65 65 65 65 62 63 71 72 72 73 73 69 65 65 65 65 65 65 65 65 65 65 65 65 65 | 977 | 19 | 20 | 63 | 9 | † | . | 65 4 5 | . | හ අ ග ් | 9. | ٠. | 9 1 | 91 | 9 1 | | 60 | 25 | 2 9 |
| 25.1. 5.4 58 6f 64 65 65 65 67 69 71 76 72 71 71 71 71 67 63 65 65 65 65 65 65 65 65 65 65 65 65 65 | 15.70 | 4 m 0 .n | 3 6 |) W | 6 C | 9.6 | מ מי | - 4 - 4 | | 2.0 | 5 C | ٠, | ٠. | ۰،۲ | - ^ | | 6.0 | - us | 2 0 |
| 2551. 55 59 58 65 67 69 00 68 73 72 74 72 73 73 69 66 66 63 3151 53 57 56 63 61 64 66 69 70 77 71 74 73 73 69 66 66 64 66 63 70 77 71 74 73 73 68 64 64 66 69 70 77 71 74 73 75 69 69 69 69 69 69 69 71 73 71 74 73 71 67 69 69 69 69 69 69 69 69 69 69 69 69 69 | 2. | ŝ | 53 | 9 | 49 | 65 | 2 | 6.8 | 9 | 20 | 69 | - | ~ | 7 | ~ | | 29 | 100 | 2 |
| 3151 53 57 56 63 61 64 66 64 ac 39 70 70 71 74 73 73 68 64 6 64 6 6 70 77 71 71 74 73 73 68 64 6 6 6 70 77 71 73 76 76 75 69 65 69 65 70 77 71 73 76 76 75 69 65 69 70 70 71 73 76 76 76 76 76 76 76 76 76 76 76 76 76 | ٠, | 53 | 53 | z es | 77 | 69 | 20 | 69 | ဂ ၁ | 80 | ? | 2 | 7 | 7 | 7 | | 69 | 99 | 65 |
| 4.10 57 61 63 65 66 68 73 76 71 73 76 76 75 75 75 76 76 75 | 15 | | 25 | 56 | 63 | 61 | ţ | 56 | 40 | ၁ ၁ | 60 | 3 | ~ | _ | 7 | | 6.8 | .g. | 53 |
| 52 55 55 57 62 53 62 62 64 66 69 70 69 71 73 71 67 63 63 63 73 71 67 63 63 63 63 64 55 64 55 64 55 64 65 69 69 69 69 69 69 69 69 69 69 69 69 69 | ٠, | | 97 | 0.0 | 9 | 64 | , | 9 9 | | 99 | 20 | ت | 7 | ^ | 7 | | 69 | 65 | 65 |
| t3., 49 57 56 61 59 6, 52 83 55 68 59 67 68 69 68 64 th 5 8., 5 8. | | | 5. D | 24 | 29 | 53 | ر. ور | 29 | | † 9 | 99 | ω. | 9 | ~ | ~ | | 67 | €9 | 2 |
| 8: 47 57 58 63 63 69 69 69 69 69 69 63 57 68 66 62 60 5 ulde 43 52 54 59 59 62 64 59 62 66 66 66 67 66 64 63 63 59 56 5 VERALL 79 76 81 80 79 79 79 78 80 82 82 82 83 83 83 84 82 82 8 | ~ | | 57 | አ ሌ | 61 | 53 | Ģ, | 29 | | .c. | 68 | æ | 9 | 9 | ڡٚ | | 40 | .5 | 53 |
| ujju 43 52 54 59 59 62 64 59 62 66 56 56 64 64 63 63 59 56 5 Verall 79 76 81 80 79 79 79 78 80 82 82 82 83 83 83 84 82 82 8 | | | 25 | 58 | .ç | 63 | 65 | 68 | | Ď. | 69 | or. | ဖ | _ር | 9 | | 6 2 | 69 | 59 |
| 79 78 61 60 79 79 79 78 80 82 62 62 63 63 63 64 62 62 6 | 10000 | | 52 | 24 | 53 | 2 0 | 29 | * | | 29 | 99 | 9 | • | ۵ | ف | | 29 | 26 | 20 |
| | (OVERALL | 79 | | | | 79 | | | | | | | 2 8 | ** | • | • | | | |

| TABLE | PERCEI AS A FI | PERCEIVED NOISE LEVEL AS A FUNCTION OF ANGL | ISE LE | _ ш | (PNDB) AND DISTANCE | TANCE | FROM SOURCE | JURCE | | | | | | | | IDENTI OMEGA TEST | DENTIFICATIONS OMEGA 8.2 TEST 77-735-631 | TON8 | |
|---|--|--|--------|--------------|--------------------------|-------------------------------|---|----------------------|----------------|--------------|---|----------------|-------------------------|--------------|------|--|---|--------|---------------------|
| (-NOISE SOURCE/SUBJE F-180 NOISE SU AF32A-16 | SOURCE/SUBJECT 100 NOISE SUPP 32A-16 | SUBJECT! SE SUPPRESSOR | ESSOR | | OPERATIONS 70x RP SINGLE | ATTON: 70% RPH SINGLE E | ATION: TOX RPH ENG RUNUP SINGLE ENGINE GROUND RUNUP (SUP | UNUP (SUPPRESSED) | SSE0) | 2 | METEOROLOGY TEMP BAR PRE: REL HUM DELTA N = | OGY # | # 59 # 29,92 # 78 | N N X | | AIRCRAFT OPERATION PROFILE V 26 NOV 79 | RUN 02 AIRCRAFT CODE 7 OPERATION CODE 0 PROFILE VERSION PAGE 02 | CODE 7 | 730 00121 1 A |
| DISTANCE (FEET) | | 19 | 10 20 | 96 | 3 | 50 | 2 09 | 2 | ANGLE | 52 | GREES) 100 | 110 | 128 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 86.6 | 86.5 | 91.1 | 92.7 | 91.6 | 92.8 | 94.1 | 92.3 | 94.3 | 96.3 | 97.1 | 97.0 | | 99.2 | | 99.1 | | 92.2 | 91.6 |
| 315 | 82.1 | 83.7 | 96.4 | 0.0 | | 88.2 | 4.68 | 67.5 | 60 | 91.5 | 25.00 | 25.2 | | | 4 | | | 87.5 | 86.8 |
| 200 | 77.2 | 78.5 | 81.2 | 82.0 | 81.7 | 83.2 | 84.4 | 82.3 | 84. 4 | 86,3 | 87.5 | 6 . 9 86. 9 | | | | | | 82.5 | 61.6 |
| 9 00 00 00 00 00 00 00 00 00 00 00 00 00 | 74.6 | 75.7 72.7 | 78.4 | 80.0 77.2 | 79.0 76.2 | 77.7 | 81.7 78.9 | 79.6 76.8 | 81.5 78.7 | 83.5 88.6 | 84.8 81.9 | 84.0 81.0 | 85.0 82.2 | 86.3 83.2 | 86.5 | 86.2 83.1 | 82.2 79.4 | 79.8 | 76.9 76.1 |
| 4.00 | 9 | 4 64 | 73.3 | 6 : 6 | | 71. 7 | 0 | 9 | | : | 9 | | | | | , | | | |
| 1253 | 5. 5. 5. | 16.1 | 63.8 | 70.0 | 2.5 | 7.7 | 72.0 | 70.5 | 72.3 | 74.2 | 75.6 | 7 | 4 0 | 76.3 | | | | | 6.60 |
| 1600 | | 62.6 | | 67.4 | 66,4 | 6.70 | 69.1 | 67.0 | | 7.4.7 | 72.0 | | · 100 | | | 73.1 | | | 65,3 |
| 2403 | 5 de 9 | 54.9 | | 63.5 | 62,6 | 64.3 | 65.3 | 63.1 | | 56.8 | 68,2 | | | | | | | | 4.29 |
| 25.3 | | 7.40 | | 59.4 | 58° | 50.8 | 61.1 | 5.8 8 | o () o | 62.5 | 63.9 | | m | | | | | | 59.1 |
| 3151 | | 9 6 7 | | . O | | 55.1 | 56.2 | 53. | 55.7 | 57.8 | 59°C | | ~ | | | | | | 52.8 |
| 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9 6 | 42.4 | | * * * | | 9 4 | 71.6 | 1001 | 5.4.0 1.4.0 | 52. | 1 P | | . . | | | | | | |
| 63 u.C | 31.2 | 33.6 | - 00 | 5 | M 1 | 38.3 | 0 | 36.4 | | 100 | , t | | . - | | | D - | | | 46.5 |
| 34.44 | 24.5 | 19.6 | • | 28.0 | 28.5 | 31.7 | 32.8 | 28.4 | 30.9 | 32.9 | 34.6 | | 35.5 | 33.7 | 33.9 | 35.3 | 31.8 | 28.5 | 25.3 |
| 4 0.000 | 14.1 | 8.5 | 10.5 | | | 20.2 | 22.2 | 16.6 | 6 | 21.7 | 24.9 | | | | | σ | • | | 16.7 |
| 12500 | 3.7 | | 6.3 | 4 | 3.8 | 9.9 | 11.6 | 5.5 | 7.2 | 10.5 | 6.9 | 11.5 | 2.7 | 7.6 | 7.0 | 12,3 | 8.2 | 1.6 | ; |
| 10000 | | | | | | | 1.0 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| | AS A FI | AS A FUNCTION OF | | FENCEL VED | | INCE | 5 | SOURCE | | | | | | | | OMEGA TEST | • <u>•</u> | | |
|---|-------------------------------------|--|---|-------------------------------|---|---|---------------------------------------|---|------------------------------|--|---|---------------------------------------|---|---------------------------------------|---|--|---|--|------------------------------|
| NOISE SOURCE/SUB F-11, NOISE AF32A-16 | SOURCE/SUBJECTS 1úc NOISE SUPPR | BJECT1 SUPPRESSOR | ESSOR | | OPERATIONS 70 x RP SINGLE GROUND | 1 I | ENG RU | RUNUP E (Suppressed) | (SSED) | # "B | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | = 59 = 59 = 70 | 2 IN HG | | PROFER OF PROFER OF PAGE | 32 RAFT RATION TLE V 10V 79 | CODE 7 CODE 6 ERSION | 734 00121 A |
| OISTANCE (FEET) | | 100 | 20 | 36 | 3 | 50 | 99 | 7.0 | ANGLE | (DEGREES 90 100 | KEES) | 110 | 120 | 130 | 146 | 150 | 160 | 176 | 180 |
| 200 250 315 | 0 0 0 0 0 0 0 0 0 0 0 | 90.0 | 93.2 | 93.7 91.6 99.0 | 92.9 | 94.3 92.1 89.7 | 95.7 | 90° 30° 30° 30° 30° 30° 30° 30° 30° 30° 3 | 94.3 91.9 89.5 | 97.0 94.6 92.1 | 97.1 94.8 92.5 | 97.0 94.6 92.2 | 0.4 | 100.3 97.9 95.5 | 542 | 100.1 97.6 95.3 | 96.3 94.0 91.5 | 93.4 91.1 68.7 | 92.7 90.3 87.9 |
| 0 0 0 0 0 0 0 0 0 0 0 0 | 81.2 78.7 76.1 73.4 | 82.7 80.0 77.2 74.2 | 85.9 83.3 77.5 | 86.4 83.8 81.8 78.2 | 85.6 83.0 77.6 | 87.3 84.7 82.0 79.2 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 85.9 83.3 80.6 77.8 | 86.9 84.3 81.5 78.7 | 69.6 85.9 84.1 81.2 | 9 c. 0 8 7 c 5 6 7 c 5 6 7 c 5 | 89. 86.9 84.9 61.0 | 98.6 87.9 85.0 82.2 | 92.3 90.2 87.3 | 92. 89.4 85.5 | 92.8 90.1 87.2 64.2 | 8 8 9 9 8 8 9 9 8 9 9 9 9 9 9 9 9 9 9 9 | 86.3 83.7 81.1 76.2 | 85.3 82.7 80.0 77.2 |
| 15.0 | 67.5 | 67.9 | 7 : • 9 | | 74.6 | 76.2 | 77.2 | 74.8 | œ×. | 76.2 | 78.9 | 77.8 | 79.1 | 86.9 77.3 | 36.1 76.4 | 81.E | 77.8 | 75.2 | 74.2 |
| 155.0 26.0 25.0 | 50°5°4 | 6 4 6 1 5 5 6 7 5 6 7 | 63.7 63.7 53.6 | | | 65.6 65.6 61.3 | 66.3 52.7 | 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | 7.5.4 5.7.4 5.8.4 5.8.4 | 72.E | 63.4 63.4 | 63.4 64.3 | 69.50 | 68.7 64.4 | 73.3 | 67.1 62.8 | 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 | 53.2 |
| 5154 44.0.3 50.10 53.88 | មានស មាល់ស ស្គ្រាស ស្គ្រាស | 74 4 2 2 3 3 4 4 4 5 2 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 0 7 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | ស្ទុក សូទូសូមូ ស្សូសូមូ | ស្នង សូទូ ឆ្ន ស្រ | 25.00 | 10.00 10.00 10.00 10.00 | 54.0 4.0 5.0 5.0 5.0 7.0 7.0 7.0 | ~ 05- | t + 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7 7 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | # # # # # # # # # # # # # # # # # # # | 4 7 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 61. 57. 62. 62. 63. 63. | 77.74.8 17.4.9 19.99.99 | 3 F F S S S S S S S S S S S S S S S S S | 44.44 44.44 44.44 |
| 200000 TT | 34 46 | 8 0 0 0 | 16.5 | | 2 2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 20 - 3 32 - 3 8 - 8 | 33.1 11.6 1.6 1.0 | 16.6 5.6 5.0 5.0 | 31.3 | F 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 2 t : 6 6 . 9 | 35. 25. 6 | 12° 35° 35° 5 | 23.3 7.6 | 23.9 | 25.5 25.9 12.3 | 37.5 20.5 8.2 8.2 | 15 61 | 14.7 |

| F-10 NOTE SUNCE/YOU-ECTT CTERATION C | TABLES | A-I AS | KEIGHTED OVERAL A FUNCTION OF | VERALL N OF A | SOUN | OUND LEVEL (DBA) | _ | FROM S | SOURCE | | | | | | | |) TES | IDENTIFICATION OMEGA 8.2 TEST 77-730-00 | TIONS 2 30-001 | |
|--|--------------------|-----------------|----------------------------------|------------------|----------------|----------------------------|--------------------------|--------------------------|----------------|--------|--------|---|--------------|------------------------|--------------|------|---|---|------------------------|--------------|
| 2.6 73.4 75.9 60 70 80 90 10 <t< th=""><th>AF32A</th><th>E/S OIS 6</th><th>SUPPR</th><th>880</th><th></th><th></th><th>TION: DX RPH INGLE</th><th>ENG R ENGINE RUNUP</th><th>UNUP</th><th>ESSED)</th><th>¥ 6</th><th>ETEOROI TEMI BAR BAR ELTA N</th><th>GY #</th><th># 55 #29.92 # 70</th><th>F HX</th><th></th><th>P N P D P P P P P P P P P P P P P P P P</th><th>DZ RAFT RATION FILE VI</th><th>CODE CODE ERSION</th><th>730 00121</th></t<> | AF32A | E/S OIS 6 | SUPPR | 880 | | | TION: DX RPH INGLE | ENG R ENGINE RUNUP | UNUP | ESSED) | ¥ 6 | ETEOROI TEMI BAR BAR ELTA N | GY # | # 55 #29.92 # 70 | F HX | | P N P D P P P P P P P P P P P P P P P P | DZ RAFT RATION FILE VI | CODE CODE ERSION | 730 00121 |
| 72.6 73.4 75.9 77.4 70.1 30.2 82.6 83.6 83.6 84.2 84.7 86.2 77.9 86.1 83.6 84.2 84.7 75.9 77.9 86.1 83.6 84.7 86.2 84.7 86.2 76.3 77.9 77.1 76.3 77.1 77.1 76.3 77.1 77.1 76.3 77.1 77.1 76.3 77.1 77.1 76.3 77.1 77.1 76.3 77.1 <th< th=""><th>(DISTANCE (FEET)</th><th>9</th><th>97</th><th>20</th><th>i</th><th>3</th><th>20</th><th>99</th><th>2</th><th>ANGL:</th><th>08</th><th>REES) 100</th><th>110</th><th>120</th><th>130</th><th>148</th><th>150</th><th>160</th><th>170</th><th>180</th></th<> | (DISTANCE (FEET) | 9 | 97 | 20 | i | 3 | 20 | 99 | 2 | ANGL: | 08 | REES) 100 | 110 | 120 | 130 | 148 | 150 | 160 | 170 | 180 |
| Color | 200 | 72.6 | 73.4 | 75.9 | | 77.4 | 78.9 | 86.3 | 78.1 | | 82.4 | 83.6 | 83.5 | 84.2 | 7.48 | 85.0 | 84.8 | 80.6 | 77.6 | 76.7 |
| 66.2 66.7 69.3 71.0 70.6 72.0 73.4 71.2 75.3 76.5 77.1 77.1 77.2 77.1 77.1 77.2 77.2 71.2 75.3 77.2 77.2 71.2 71.2 71.2 71.2 71.2 71.2 | (250 (315 | 68.3 | 71.2 69.0 | 73.8 | | 72,9 | \$. \$. \$. | 75.7 | 73.6 | 75.6 | 77.7 | 79.0 | 51.2 78.9 | 79.5 | 82.4 80.1 | 82.7 | 82.5 | 76.8 | 73.1 | 72.5 |
| 55.5 56.4 66.2 66.7 66.1 66.4 66.2 66.2 72.8 74.1 74.1 75.1 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 | 004 | 66.2 | 66.7 | 69.3 | | 70.6 | 72.0 | 73.4 | 71.2 | 73.2 | 75.3 | 76.5 | 76.5 | 77.1 | 77.6 | 77.8 | 77.8 | 73.6 | 8.02 | 69.6 |
| 59.3 59.4 62.2 63.5 63.3 64.6 65.9 66.9 66.7 66.9 69.6 <th< td=""><td>926</td><td>63.9 61.6</td><td>64.3</td><td>67.1 64.7</td><td></td><td>0 0 0 0 0 0</td><td>69.6 67.1</td><td>68.4</td><td>66.8 66.2</td><td>70.7</td><td>72.8</td><td>74.1</td><td>0 % C</td><td>74.7</td><td>75.1</td><td>75.5</td><td>75.3</td><td>71.2 68.6</td><td>65.9</td><td>67.5 65.8</td></th<> | 926 | 63.9 61.6 | 64.3 | 67.1 64.7 | | 0 0 0 0 0 0 | 69.6 67.1 | 68.4 | 66.8 66.2 | 70.7 | 72.8 | 74.1 | 0 % C | 74.7 | 75.1 | 75.5 | 75.3 | 71.2 68.6 | 65.9 | 67.5 65.8 |
| 50.8 56.8 66.1 66.1 66.7 66.7 66.8 67.1 63.2 60.6 54.3 54.6 57.1 58.2 61.2 61.2 63.2 63.6 63.6 63.7 64.1 60.4 57.8 54.6 51.2 54.3 57.1 58.2 61.2 61.2 61.6 61.4 61.5 64.1 67.4 57.8 51.6 51.2 54.3 57.1 58.3 57.1 58.9 61.2 61.2 61.4 61.5 64.1 61.4 57.4 <td>000</td> <td>59.3</td> <td>99.4</td> <td>62.2</td> <td></td> <td>63,3</td> <td>9.49</td> <td>62.9</td> <td>63.7</td> <td>65.5</td> <td>67.5</td> <td>6.89</td> <td>68.7</td> <td>69.5</td> <td>69.6</td> <td>69.8</td> <td>669</td> <td>9.99</td> <td>63.3</td> <td>62.4</td> | 000 | 59.3 | 99.4 | 62.2 | | 63,3 | 9.49 | 62.9 | 63.7 | 65.5 | 67.5 | 6.89 | 68.7 | 69.5 | 69.6 | 69.8 | 669 | 9.99 | 63.3 | 62.4 |
| 54.3 54.6 57.1 56.2 58.0 59.3 60.5 56.2 60.3 61.9 61.9 63.2 63.2 63.6 63.6 63.7 64.1 60.4 57.8 51.8 51.8 51.2 51.8 51.8 51.8 51.8 51.8 51.8 51.8 51.8 | 1639 | 50.8 | 77 60 60 | 59.7 | 69.6 | 69.7 | 62.0 | 5.50 | 61.0 | | 54.8 | 66.1 | 66.3 | 66.7 | 66.7 | 66.8 | 67.1 | 63.2 | 60.6 | 59.7 |
| 51.6 51.2 54.3 55.2 56.4 57.6 55.3 57.0 56.9 60.2 60.2 60.6 60.4 60.5 61.0 57.4 57.4 54.9 49.9 46.2 51.4 52.2 53.4 54.6 52.3 53.9 55.7 57.1 57.1 57.1 57.2 57.7 57.2 57.7 57.2 57.4 63.8 57.1 57.7 57.2 57.4 63.8 57.1 67.2 67.2 57.2 57.7 57.2 57.4 63.8 57.1 67.2 67.2 57.2 57.2 57.2 57.2 57.2 57.2 57.2 5 | 1250 | 54.3 | 54.6 | 57.1 | 5 % 2 | 5 8, 0 | 59.3 | 60.5 | 58.2 | | 61.9 | 63.2 | 63.2 | 63.8 | 63.6 | 63.7 | 64.1 | 60.4 | 57.8 | 56.9 |
| +8.9 48.6 51.4 52.3 52.2 53.4 54.6 52.3 53.9 55.7 57.1 57.1 57.7 57.8 57.2 57.1 57.2 57.2 57.2 57.2 57.2 57.2 57.2 57.2 | (1653 | 51.6 | 51.5 | 54.3 | 55,3 | 55.2 | 56.4 | 27.6 | 55,3 | 57.0 | 58.9 | 60.2 | 60.2 | 69.8 | ₽. 60.4 | 60.5 | 61.0 | 57.4 | 54.9 | 54.0 |
| 75.4 41.6 44.5 45.7 45.6 46.9 48.1 45.7 45.6 73.4 73.6 46.9 45.8 73.6 73.8 73.8 73.8 73.8 73.8 73.8 73.8 73.8 | 2030 | 0 e | 48.2 2.0 | 51.4 | 25 | 52.2 | 53.4 | 54.6 | 52.3 | 50 M | 55.7 | 57.1 | | 57.7 | 57.0 | 57.1 | 57.7 | 54.0 | 51.9 | 51.0 |
| 38.6 37.9 41.2 42.0 41.9 43.2 44.3 42.0 43.4 45.0 46.3 46.6 46.9 45.8 45.9 46.7 43.6 44.5 37.8 33.0 34.7 33.9 37.2 37.9 37.8 33.1 4.0.1 37.9 39.3 40.0 42.0 42.0 42.5 42.7 41.5 41.6 42.4 39.7 37.5 31.3 23.4 33.3 34.6 35.0 33.5 34.8 36.1 37.4 38.0 38.1 38.3 37.0 37.6 37.6 37.6 37.5 33.0 26.3 25.4 28.6 29.0 28.6 29.0 28.6 29.0 28.6 29.0 28.6 29.0 28.6 29.0 28.6 29.0 28.6 29.0 28.6 27.8 27.8 27.8 27.8 27.8 27.8 27.8 27.8 | 3150 | 45°4 | 41.6 | 0 o | 4 % 4 4 % 4 | 0 c | 46.9 | 4.8.0 | 42.4 | 47.2 | 1 60 e | 53.1 | | 50.8 | 7004 49.7 | 40°8 | 50.6 | | 45.2 | * |
| 34.7 33.9 37.2 37.9 37.8 39.1 4.0.1 37.9 39.3 40.8 42.0 42.5 42.7 41.5 41.6 42.4 39.7 37.5 31.3 23.4 33.3 34.6 35.0 33.5 34.8 35.1 37.4 36.0 38.1 36.4 37.0 37.6 37.0 37.6 33.0 20.3 23.4 33.3 32.4 33.4 33.3 32.4 33.4 33 | E034) | 38.8 | 37.9 | 41.2 | 4.2° U | 41.9 | 43.2 | | 42.0 | +30+ | 45.0 | 46.3 | 46.6 | 46.9 | 45.8 | 45.9 | 46.7 | | 41.5 | 40.7 |
| 30.3 23.4 32.8 33.4 33.3 34.6 35.0 33.5 34.8 36.1 37.4 36.0 36.1 37.0 37.6 35.2 33.0 26.3 25.0 28.6 29.0 28.8 31.0 29.0 30.1 31.3 22.4 33.1 33.3 32.0 32.2 32.9 31.6 28.4 26.3 22.1 21.2 24.1 24.3 23.9 25.1 25.9 24.0 25.0 25.0 27.0 27.7 27.9 26.0 27.0 27.6 25.5 23.5 17.5 15.9 19.3 19.3 19.3 19.5 15.9 26.0 19.4 20.2 21.1 21.8 22.1 21.1 21.3 21.3 21.9 28.9 18.1 18.1 12.5 15.6 9.7 14.2 13.9 12.9 14.0 14.2 12.8 13.4 14.0 14.7 15.2 15.7 14.0 15.7 14.0 15.7 14.0 12.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | 3000 | 34.7 | 33.9 | 37.2 | 37.9 | | 39.1 | | 37.9 | 39, 3 | 40.8 | 45.0 | 45.5 | 42.7 | 41.5 | 41.6 | | | 37.5 | 36.6 |
| 22.1 23.2 24.1 24.3 23.9 25.1 25.9 24.0 30.1 31.3 32.4 33.1 33.3 32.0 32.2 32.9 33.6 28.4 28.4 22.1 23.2 24.1 24.3 23.9 25.1 25.9 24.0 25.0 27.0 27.7 27.9 26.0 27.0 27.6 25.5 23.5 17.5 15.9 19.3 19.3 19.3 19.3 19.5 10.3 18.6 19.4 20.2 21.1 21.8 22.1 21.1 21.3 21.9 28.9 18.1 18.1 12.5 12.6 9.7 14.2 13.9 12.9 14.0 14.2 12.8 13.4 14.0 14.7 15.2 15.7 14.0 15.1 15.7 14.1 12.5 7.5 4.3 9.0 8.3 7.0 7.9 7.0 6.5 6.9 7.4 6.0 8.2 8.8 8.1 8.4 9.2 7.8 6.7 22.2 3.7 2.5 1.0 1.5 1.1 1.0 1.7 1.1 1.0 1.7 1.3 1.5 2.6 1.6 1.5 1.3 | 9990 | 30.3 | 23.4 | 32.8 | 33,4 | 33, 3 | 34.6 | 35.0 | 33.5 | 34.8 | 36.1 | 37.4 | 38.0 | 38.1 | 36.8 | 37.0 | | 35.2 | 33.0 | 32.2 |
| 22.1 23.2 24.1 24.3 23.9 25.1 25.9 24.0 25.0 26.0 27.0 27.7 27.9 26.6 27.0 27.6 27.5 23.5 23.5 17.5 15.0 19.3 19.3 19.3 19.6 19.7 20.3 18.6 19.4 20.2 21.1 21.8 22.1 21.1 21.3 21.9 28.0 18.1 12.6 9.7 14.2 13.9 12.9 14.0 14.2 13.4 14.0 14.7 15.2 15.7 14.0 15.1 15.7 14.1 12.5 7.5 4.3 9.0 8.3 7.0 7.9 7.0 6.5 6.9 7.4 6.0 8.2 8.0 8.1 8.4 9.2 7.0 6.7 22.2 2.2 3.7 2.5 1.0 1.5 1.1 1.0 1.7 13 1.5 2.6 1.5 1.5 1.3 | 20 (9 | | • | 28.6 | 29. u | 28.8 | 30.0 | | 2 3 • 6 | 30.1 | 31.3 | 32.4 | 33.1 | 33.3 | 32.0 | 32.2 | 32.9 | 30.6 | 28.4 | 27.8 |
| 17.5 15.8 19.3 19.3 19.5 18.6 19.7 20.3 18.6 19.4 20.2 21.1 21.8 22.1 21.1 21.3 21.9 28.8 18.1 12.6 12.6 9.7 14.2 12.9 18.1 12.5 17.6 14.7 15.2 15.7 14.8 15.1 15.7 14.1 12.5 7.5 4.3 9.8 8.3 7.8 7.8 7.8 6.5 6.9 7.4 6.0 8.2 8.8 6.1 8.4 9.2 7.8 6.7 2.2 3.7 2.5 1.0 1.5 1.1 1.0 1.7 1.3 1.5 2.6 1.6 1.3 1.5 2.6 1.5 1.3 1.5 2.6 1.5 1.3 1.5 2.6 1.5 1.3 1.5 2.6 1.5 1.3 1.5 2.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1 | 10000 | 22.1 | 23.2 | 24.1 | | 23,9 | 25.1 | 25.9 | 24.0 | | 26.0 | 27.0 | 27.7 | 27.9 | 26.8 | 27.0 | 27.6 | 25.5 | 23.5 | 23.0 |
| 12.6 9.7 14.2 13.9 12.9 14.8 14.2 12.8 13.4 14.0 14.7 15.2 15.7 14.8 15.1 15.7 14.1 12.5 7.5 4.3 9.8 8.3 7.8 7.9 7.9 7.8 6.5 6.9 7.4 6.0 8.2 8.8 6.1 8.4 9.2 7.8 6.7 2.2 4.3 3.7 2.5 1.0 1.5 1.1 .0 .4 .9 1.1 1.0 1.7 1.3 1.5 2.6 1.6 1.3 | (12508 | 17.5 | 15.0 | 19, 3 | | 16.6 | 19.7 | 20.3 | 18.6 | | 20.2 | 21.1 | 21.8 | 22.1 | 21.1 | 21.3 | 21.9 | 20.0 | 10.1 | 17.8 |
| 7.5 4.3 9.8 8.3 7.8 7.9 7.8 6.5 6.9 7.4 6.8 8.8 8.8 6.1 8.4 9.2 7.8 6.7 2.2 2.2 3.7 2.5 1.8 1.5 1.5 1.1 1.0 1.1 1.0 1.7 1.3 1.5 2.6 1.6 1.3 | 16900 | 12.6 | 4.6 | 14.2 | | 12.9 | 14.0 | 14.2 | 12.8 | | 14.0 | 14.7 | 15.2 | 15.7 | 14.0 | 15.1 | 15.7 | 14.1 | 12.5 | 12.3 |
| Zo2 3.7 Zo5 1.0 1.5 1.1 .0 .4 .9 1.1 1.0 1.7 1.3 1.5 Zo6 1.6 1.3 | 20000 | 5.50 | | 6 | | 2.0 | 6.7 | 7.8 | 6.5 | | 7.4 | 9 | 8.0 | 8. | 8. | 4.6 | 9.2 | 7.8 | 6.7 | 9.9 |
| | 25860 | 5° 5 | | 3.4 | | | .5 | 1:1 | • | • | 6 | 1.1 | 1:0 | 1:7 | 1.3 | 1.5 | 5. 6 | 1:6 | †• 3 | • |

| (TABLE: | TONE-C | TONE-CORRECTED, A-WEI | ED, A- | و | HTED OVE | OVERALL SI | SOUND LEVEL | 1 | (08A) | | | | | | |) I DENT I | DENTIFICATION | ION | |
|--------------------|-----------------------|--|--------|-------------------|-----------------------|-----------------------------------|--------------------------------------|----------------------------------|------------|-------|-------------------------------|-------------|----------------------------|---------------|--|---------------------------------------|---------------|----------------------------|-----------------|
| | ASAF | FUNCTION | 9 | ANGLE A | AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | i |) TEST | ۽ آءَ وَ | 100-01 | |
| NOISE F- | SOURCE/SUBJECTI | BJECT: SUPPRESSOR | ESSO | | O PERA 7 | RATIONS 76% RPM SINGLE E GROUND R | M ENG RUNUP ENGINE RUNUP (SUPP | UNUP (SUPPRESSED) | ESSE0) | # # G | METEOROLOGY BAR PRES REL HUMI | 000 | = 59.92 = 29.92 = 70 | N H G | | AIRCRAF OPERATI PROFILE PAGE | 6. 6. | CODE 7 CODE 0 FRSION | 30 0121 A |
| (DISTANCE (FEET) | E . | 707 | 50 | 36 | 9 | 50 | 9 | 9.2 | ANGLE | | DEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 230 | 74.1 | 75.3 | 78.0 | | ဆိုတိ | 80.5 | 82.0 | 79.1 | 89.2 | 83.0 | 83.6 | 83.5 | 84.2 | 85.8 83.5 | 85.0 | 85.8 83.6 | 82.0 79.8 | 76.6 | 77.8 |
| 315 | 69.9 | 74.5 | 73.6 | 74.3 | 74.3 | 75.9 | 77.4 | 76.6 | 75.6 | 78.3 | 79.0 | 78.9 | 79.5 | 81.1 | 80.3 | 81.2 | 77.4 | 74.3 | 73.3 |
| 200 | 65.5 | 65.8 | 69.1 | | 6 | 7:13 | 72.6 | 69.8 | 70.7 | 73.4 | 74.1 | 7. | 7.4.7 | 76.1 | 75.3 | 76.3 | 72.6 | 9.69 | 68.5 |
| 900 | 6 4. 8 | 6.99 | 64.3 | 94.9 | : : | 66.1 | 67.5 | 64.7 | 65.5 | 68.1 | 68.9 | 68.7 | 69.5 | 70.7 | 69.8 | 71.0 | 67.4 | 64.5 | 63.5 |
| 1986 | 5. B. 4. | 50 60 60 60 60 60 60 60 60 60 60 60 60 60 | 5,1 | 6114 | | 63.5 | 6.44 | 62.6 | B 2. A | 45.4 | 66.1 | 9 | 5.i. 7 | 67.7 | S. A. | 68.1 | 54.7 | 6.1.8 | 6.32.8.3 |
| (1250 | 55.6 | 55.6 | 53.1 | 59.5 | 6 | 64.8 | 62.1 | 59.5 | 7 • 7 • 9 | 62.5 | 63.2 | 63.2 | 63.8 | 64.7 | 63.7 | 65, 1 | 61.8 | 59.1 | 58.0 |
| (16u0 | 53.4 | 52.7 | 30 m | м м 9 м 9 м | ស ស ស ស ស | 57.9 | 59.0 | 50 00 50 00 50 00 50 00 | 75 | 50.5 | 66.2 57.1 | 67.2 | 60.8 | 61.4 58.3 | 60.5 | 62.0 58.7 | 55.8 | 56.1 | 55.1 |
| 25.00 | 47.3 | 46.5 | 5 4 | 50.1 | ċ | 51.8 | 53.4 | 50.1 | 50.7 | 53.0 | 53.7 | 53.8 | 54.3 | 54.5 | 53.5 | 55.3 | 52.4 | 6.64 | 48.9 |
| 3150 | (3 t) 4 t) 4 t) | 43,1 | 47. U | 46.7 | | 48.4 | 9.0 | 46.7 | 47.2 | 4 U | 56.1 | 50.4 | 51.6 | 50.00 0.00 | 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 51.6 | 6 8 4 | 46.5 | 45.5 |
| 8300 | 35.6 | 34.8 | 38.4 | . 60 | | t c . | 7 | 38.5 | 900 | 41.1 | 42.6 | 4 2 5 | 2.24 | 42.1 | 41.6 | \$ 0° C | 40.0 | 36.2 | 37.3 |
| 6330 | 32.9 | | 33.6 | 33.8 | 33.9 | 35.2 | 36.3 | 33.9 | 34.8 | 36.4 | 37.4 | 38. | 38.1 | 37.3 | 37.0 | 36.2 | 35.8 | 33.5 | 32.6 |
| | 7 9 • 0 | 25.3 | | * | ř | 56.3 | 31.3 | 2.67 | (4 e b | 31.4 | 32.4 | 33.1 | 33.3 | 32.2 | 32.2 | 33.1 | 30.9 | 28.7 | 28.E |
| 10013 | 22.1 | 20.5 | 24.1 | | m, | 25.1 | 25.9 | 24.0 | ŝ | 26.4 | 27.0 | 27.7 | 27.9 | 26.3 | 27.0 | 27.6 | 25.5 | 23.5 | 23.0 |
| 12500 | 17.5 | 15.0 | 19,3 | 12,4 | 9 6 | 19.7 | 20.3 | 9 6 | | 2.5 | 21.1 | 21.8 | 22.1 | 21.1 | 21.3 | 21.9 | 20.0 | 79. | 17.8 |
| 96092 | 7.5 | . M | 3.6 | 6. U | 7.9 | 6.7 | 7.8 | 9,5 | * 6 * 6 | 7 | 9.0 | 8.2 | 12. 8.8 | 8.1 | 42.4 | 2.6 | 7.8 | 6.7 | 6.6 |
| (25000 | 2.2 | , } | 3.7 | | 1.0 | 1.5 | 1.1 | • | | 6. | | 1.0 | 1.7 | 1.3 | 1.5 | 2.6 | 1.6 | 103 | 6 |
| > | | | 1 | | | | | | | | | | | | | | | 1 | |

| DISTANCE = 25G FEET SOURCE/SUBJECT | | | | | | | 1 CMFCA A.2 |
|--|--|---|---|---|---|---|---|
| SUPPRESSOR (70 K RPH ENG RNUMP) TEMP RESS = 29.2 12 HG (510 K RPH ENG RNUMP (510 PPRESS = 29.2 12 HG (510 K RPH RS = 29.2 12 HG (510 K RS = 29.2 12 HG (510 | | = 250 | | | | |) TEST 77-730-001 |
| 20 C C C C C C C C C C C C C C C C C C C | | | | ENG ENGINE | 1 4 6 | = 59 F =29.92 IN = 70 % |) ARCRAFT CODE 730) OPERATION CODE 00121) PROFILE VERSION A) 28 NOV 79) PAGE J2 |
| 10 C C C C C C C C C C C C C C C C C C C | | 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | PEPNLT | | • | T#ALT | |
| 10 10 10 10 10 10 10 10 | ֓֞֞֞֞֞֞֞֞֜֞֞֓֓֓֓֞֞֞֜֞֞֓֓֓֞֞֞֞֞֓֓֞֞֞֞֞֞֞֞ | | | | | | |
| 10 (| • • | • | • • • • • • | • | • | • • • • • • • • • • | (· · · · · · · · · · · · · · · · · · · |
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| 50 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | • • • • • • • • • • • • • • • • • • • | • • | • • | • • | • • | - « | • |
| 40 (| | • | • | • • | • | • | |
| 50 (| • • • • • • • • • • • • • • • • • • • | • | • • • • • • • | • • • • • • • • • | • | • • • • • • • • • • • • • • • • • • • | |
| 50 (6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | · 04 | • | • | • | • | | • |
| 100 (| | • • | • • | • • | • • | • [4 | • |
| 100 (| | • | • | • • | • | • • • | |
| 100 C C C C C C C C C C C C C C C C C C | | • | • • • • • • | • | • | • - × • • • • | |
| 100 (| | • • | • • | • • | • • | v | |
| 100 (| | • | • | • | • | • ; | • |
| 100 (110 (120 (130 (140 (150 (| | • (| • | • • | • • | × | . |
| 100 (| | • | • | • | • | AT. | · · · · · · · · · · · · · · · · · · · |
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| 110 (130 (140 (150 (160 (170 (| | • • | • • | • • | •• | • • | |
| 120 (s. 130 (s | | • | • | • | • | ×. | • |
| 130 (| | • | • | • | • | × · · · · · · · · · · · · · · · · · · · | |
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| | 140 | • • | • (| • | • | • | • |
| | 150 (| • | • | • • • • • • • • | • | • • • • • • • • | M |
| | 160 | • • | • • | • • | • • | • | • |
| | | • • | | • • | • • | • | |
| | 170 (| • | • | • | • | . A . | • |
| | 180 (-) | | | | | • • • • • • • • • • • • • • • • • • • | |
| | | • | | | | | |
| | <u>.</u> | | | | | | |

| TABLE: | | SOUND BAND 250 F | g. H. | SSURE | ESSURE LEVEL T | (08) | _ | | | | | | | | H | DENTIF OMEGA TEST 7 | FICATION 8.2 77-730-0 | ON: | |
|--------------------------|----------------|------------------------|----------|-------------|---------------------------------|------------|------------|------------|------------|-------------|--|----------------------|--------------------|---------------|--------------|---|---|------------|-------------------|
| NOISE F-10 AF32 | SUPP | SSOR | • | OPER SIN | RATIONS ILLITARY INGLE EL | | . ~ · · | E SS | 6 | | ETEOROLOGY TEMP BAR PRESS REL HUMID | 678 SS #2 10 # | 9.92 7.0 7.0 | F IN HG | | AIRCRAF OPERATI PROFILE 28 NOV PAGE C | 1 0 N S S S S S S S S S S S S S S S S S S | CODE 1 | 730 00104 A |
| BAND CENTER FREQ (HZ) | | 97 | 20 | 30 | 9 | S. | 99 | Z. | 61E (| DEGRE 90 | ES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 90 | 9,6 | 80 | 78 | 83 | 85 | 94 | 84 | 84 | 85 | 86 | | 89 | 83 | 88 | 8.7 | 88 | 88 | 88 | 80 |
| 9 | 82 | 83 | 85 | 82 | * | 94 | 83 | 83 | 82 | 85 | | 96 | 86 | 87 | 86 | 90 | 96 | 8 | 6.8 |
| 080 | 65 | 48 | 88 | 85 | 84 | 83 | 82 | 81 | 80 | 84 | | 97 | 86 | 96 | 83 | 89 | 87 | 85 | 83 |
| 301 | 7.8 | 11 | 81 | 79 | 80 | 79 | 77 | 79 | 81 | 41 | | 82 | 83 | 85 | 0 9 | 48 | 83 | 81 | 7 8 |
| 125 | 79 | 28 | | 60 | 91 | 0 i | 77 | 11 | 92 | 92 | | 80 | 83 | 79 | 81 | 82 | 82 | 80 | 81 |
| 100 | ⇒ (4 | £ 4 | 4 t | 1 6 2 4 | 2 4 | 9 6 | 72 | 4 4 | 73 | <u> </u> | D 0 | φ • | 5 2 | 72 | * * * | 2,2 | D 9 | 76 | 78 |
| 256 | . eo | 86 | 9 | 81 | 56 | , 10 10 | . 0 | 9.2 | 78 | 62 | | |) 4 0 60 | 8 2 | . 2 | 2 2 | . 60 | 92 | 2 6 |
| 315 | 46 | 96 | 96 | 48 | 85 | 85 | 94 | 82 | 83 | £8 | | 85 | 85 | 96 | 81 | 83 | 82 | 77 | 80 |
| 304 | † 6 | 89 | 16 | 83 | 96 | 87 | 86 | 81 | 83 | 81 | | 85 | 81 | 83 | 82 | 79 | 80 | 78 | 79 |
| 506 | 96 | 83 | 85 | 81 | 85 | 87 | 98 | 83 | 90 | 78 | | 82 | 80 | 83 | 81 | 7.8 | 77 | 80 | 11 |
| 630 | 81 | 80 | 83 | 79 | 83 | 86 | 83 | 83 | 81 | 79 | | 81 | 80 | 83 | 81 | 90 | 78 | 81 | 16 |
| 308 | 9 % | 84 | 87 | 90 | 94 | 88 | 96 | 87 | 83 | 85 | | 83 | 83 | 84 | 83 | 81 | 80 | 7 8 | 79 |
| 900T | 82 | 83 | 83 | 94 | 85 | 88 | 87 | 86 | 8 4 | 3 | | † 6 | 82 | 82 | 82 | 80 | 80 | 3 | 78 |
| 1250 | 52 | 28 | 85 | 81 | 94 | 86 | 85 | 9 | 83 | 84 | | 83 | 81 | 82 | 4 | 62 | 4 | 80 | 52 |
| 1600 | 22 | 78 | .± 60 | 80 | 83 | 87 | 63 | 82 | 9.4 | 86 | | 82 | 7 8 | 84 | 80 | 79 | 42 | 4 | 74 |
| 2000 | 69 | 75 | 82 | 80 | 81 | * | 80 | 79 | 82 | 82 | | 88 | 86 | 82 | 11 | 11 | 15 | 92 | 72 |
| 2500 | 68 | 72 | 80 | 23 | 80 | 81 | 79 | 28 | 82 | 84 | | 87 | 8 9 | 87 | 78 | 22 | 76 | 15 | 7.1 |
| 3150 | 99 | 70 | 43 | 8 2 | 90 | 81 | 79 | 11 | 82 | 9 | | 83 | 89 | 86 | 78 | 15 | 7,4 | 73 | 69 |
| 9 | 63 | 69 | 7.8 | 11 | 80 | 80 | 80 | 80 | 84 | 82 | | 89 | 96 | 86 | 78 | 92 | 73 | 72 | 99 |
| 2006 | 61 | 99 | 92 | 7.4 | 22 | 11 | 11 | 77 | 82 | 9 | | 96 | 87 | 80 | 92 | 1,4 | 70 | 69 | 99 |
| 30 | 58 | ₩ | 73 | 72 | 5 | 75 | 4 2 | * | 83 | 82 | | 86 | 96 | 81 | 75 | 7.4 | 69 | 68 | 62 |
| 3008 1 | 26 | 63 | 7. | 69 | 73 | 73 | 73 | 7.4 | 29 | 49 | | 81 | 81 | 15 | 70 | 69 | 1 9 | 62 | 69 |
| 30901 | 20 | 25 | 99 | 9 7 | 68 | 69 | 68 | 69 | 1,4 | 92 | | 9/ | 92 | 69 | 65 | 9 | 58 | 24 | S. |
| OVERALL | 66 | 96 | 66 | 95 | 96 | 86 | 96 | 95 | 96 | 46 | 86 | 66 | 66 | 86 | 76 | 96 | 95 | 95 | 46 |
| | | | | | **** | | *** | | * | | | | | | | • | | | |

| (TABLE: | PERCE | PERCEIVED NOISE LEVE | OISE LE | | | | | u 0 | | f | |) 1 1 1 1 1 | | 1 3 1 1 1 | |) IDENTI | IDENTIFICATIONS OMEGA 8.2 | INOIL | |
|--|---|--------------------------------------|---|--|--|--|--------------------------------------|--------------------------------------|---|--|--|--------------------------------------|---------------------------------------|--|------------------------------------|--|--|--------------------------------------|--------------------------------------|
| NOISE SC NOISE SC P-11 | C 1 > 12 . | UBJECT E SUPP | RE SSOR | | | RATIONS MILITAR SINGLE GROUND | | 97 % | RPH ESSED) | 1 0 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | LOGY: PRESS HUMID | = 29. = 08 | 59 F 92 IN HG 70 X | ی | -) RUN 03) AIRCRAF) OPERATI) PROFILE) PAGE (| | CODE CODE RSION | 733 00104 1 A |
| (DISTANCE ((FEET) | • | 97 | 10 20 | 30 | 9, | 50 | 99 | 7.0 | ANGL: | - 6 | DEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 107.0 104.9 162.8 | 105.6 103.4 161.2 | 109.6 107.4 105.1 | 106. 104. 102. | n m or t | | 10 m 10 f | 80 KJ 1 | 10 01 60 1 | (A) | ω Μ σ . | | | AL (7) (A) | | | | | 101.2 98.9 96.7 |
| 9990 | 96.4 96.4 96.4 93.7 | 94.3 94.3 91.9 | 100.5 100.5 98.1 95.5 | | 96,5 93,8 93,8 | 100.8 98.3 95.7 | 98.6 95.9 93.3 | | 100.6 97.8 94.9 | 101.6 98.8 96.3 | 103.9 101.2 98.4 | # 60 th | | 102.5 102.5 100.0 97.2 | # 00 OJ # | 96.1 93.5 98.8 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 94.8 | 91.9 91.9 89.3 |
| 1000 1250 1510 1510 2000 | 91.3 88.7 86.1 83.3 | | | 8 8 8 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 90.9 87.9 84.7 7.77 | 92.9 90.0 86.9 83.7 | 90.5 87.6 84.5 77.8 | 89.9 87.1 84.0 80.9 77.4 | 91.9 85.4 85.3 81.8 | 93.0 869.0 93.0 9.0 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 96.0 92.7 89.1 85.3 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 85.4 85.4 78.6 | 87.9 84.8 81.4 78.0 | 86.9 83.9 80.8 77.4 | 87.0 84.1 81.2 78.0 74.6 | 84.0 81.2 78.2 75.0 |
| 3150 (4000 (5000 (5000 (6300 | 77 76 76 76 76 76 76 76 76 76 76 76 76 7 | 72.7 67.9 62.7 57.7 53.3 | 76. 71. 67. 62. | 71.5 67.1 62.3 57.2 | 73°60°60°60°60°60°60°60°60°60°60°60°60°60° | 76.0 71.6 66.9 61.9 | 74.0 69.8 65.2 60.2 55.6 | 73.7 69.6 65.1 60.0 55.5 | 73.8 69.1 64.6 58.3 53.1 | 75.0 | 76.4 71.5 66.1 50.0 | 77.1 72.0 66.6 60.5 | 76.2 76.9 65.2 59.1 | 500000000000000000000000000000000000000 | 70 66.0 61.0 76.0 71.8 | 7000 7000 7000 7000 7000 7000 | 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 70.7 66.6 62.0 56.9 | 66.9 62.5 57.7 52.3 47.0 |
| 10000 12500 15000 26000 25000 | 51.7 47.4 42.5 36.1 | 48.6 43.5 37.7 31.3 | 500 400 300 500 500 600 600 600 600 600 600 600 6 | 446 346 20 20 30 30 40 40 40 40 40 40 40 40 40 40 40 40 40 | 49.6 43.7 49.4 49.8 | 505 400 330 54.5 54.5 | 50.5 44.9 38.6 31.7 | 50.4 44.2 37.1 28.3 | 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7.00 7.00 7.00 7.00 7.00 7.00 | 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 48.7 42.4 35.5 27.8 14.7 | 47.7 40.9 33.4 24.0 6.5 | 4.00 3.50 4.70 4.70 4.50 4.50 4.50 4.50 | 466.4 320.8 24.0 44.0 | 100.1 100.1 100.5 100.5 100.5 | 43.6 37.4 29.3 18.6 | 46.6 40.3 23.2 7.6 | 41.4 34.6 27.6 17.0 |
| | | | | | | | | | | | | | | | | | | | |

| | | | 20.0 | м ф м | <u>_</u> | 500 | 900 | | ~ ~ ~ | **** |
|--|---|--------------------|-------------------------------|--|------------|----------------------------|---|------------------------------|----------------|--|
| | 736 06104 A A | 180 | 161.2 98.9 96.7 | 94. | 86. | 84. 81. 78. | 75. | 52.1 | 52. | 27. 17. 17. 6 |
| TION: 2 30-601 | CODE CODE RSION | 176 | 99.5 | 97.2 94.8 92.3 | 89.7 | 87.0 84.1 81.2 | 78.0 | 66.6 62.0 | 56.9 52.0 | 46.6 40.3 32.8 7.6 |
| DENTIFICATION OMEGA 8.2 TEST 77-730-6 | AIRCRAFT OPERATION PROFILE VE PAGE E3 | 99 | .04.3 .02.1 99.8 | 22.0 | 9.8 | 86.9 83.9 80.8 | 4.0 | | 9 . 0 | 43.6 37.4 29.3 18.6 |
| DENT | AIRCA OPERCA PROFI | 50 1 | | | | | | | | N + N + N |
| | | - | 2 106.2 9 103.9 5 101.6 | 3 10 00 | _ | 2 86.5 1 85.4 7 82.1 | 7 2 2 4 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 | | | 6 36. 8 36. 0 20. 1 20. |
| | 9 | 1,40 | 107. 104. 102. | 100. 97. | 92• | 8 8 9 | 75. | 67. | 56. 51. | 46. 39. 32. 11. |
| | 59 F 92 IN 1 | 130 | 112.9 110.6 108.2 | 105.8 103.3 100.6 | 97.9 | 95.0 91.8 88.5 | 84.8 | 70.0 | 59.6 54.6 | 48.9 42.4 35.4 27.9 15.8 |
| | =29. = 0B | 123 | ~ ~ ~ | | | 95.9 92.6 88.9 | 85.1 | 70.9 | 59.1 53.7 | 44.4 33.4 24.0 8.5 |
| ! ! | OGY: | 110 | 0.4 | . | 71 | 96. 0 92. 7 89. 1 | 85.3 | | | 48.7 42.4 35.5 27.8 14.7 |
| | A EL | _ | a M m | + 0 N | | ru w eo | 40. | t | | 24.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 |
| | HETE | EGRE | a | 8 166. 113. 3 101. | 10 | 6 95. 1 92. | 5 | n ~ • | ωm | 10ton |
| | | LE (0 | 112. 109. | | 96 | 98. | 50 M | 0.00 | 7.0 7.0 | 448 444 1044 1044 |
| | RPM ESSED) | A SO | 110.5 108.2 105.8 | 153, 3 100, 6 97, 8 | 6.46 | 91,9 88,7 85,3 | 81.8 78.U | 69.1 | 58.3 53.1 | 47.4 46.8 33.3 10.8 |
| DB) SOURCE | R 97% RPM (SUPPRESSE | 2 | 107.8 105.5 103.1 | 98.1 95.4 | 92•6 | 89.9 87.1 84.0 | 80.9 | 69.6 65.1 | 60.0 55.5 | 50.4 44.2 37.1 28.3 17.6 |
| Nd EO | RATION: MILITARY POWER SINGLE ENGINE GROUND RUNUP (S | 09 | M - 40 | 101.2 1 98.6 95.9 | 93.3 | 87.6 84.5 | 81.4 77.8 | 69.8 | 60.2 55.6 | 50.5 64.9 38.6 31.7 21.6 |
| 1 W W | ITARY 16LE E | 50 | m r 10 | 103.2 1 100.8 98.3 | | 92.9 90.0 86.9 | 7.00 | | ~ ~ | 52.5 46.9 33.5 23.5 |
| NOISE LE | | 3 | w m m | n 4 n | • | 000 | 9~4 | 9 60 74 | 0 J | Mtt 40 |
| VED | 3d0 | : | 5 T C C | 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | 5 93. 2 87. | | | | 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| | | e | 108. 105. 103. | 400 | 6 | 90.87.8 | 80 K N | - 40 40 | rv rv | 4 4 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| ED, P | ESSOR | 20 | 110.7 108.5 106.2 | 103.9 101.6 99.2 | 96•7 | 94.1 91.3 88.3 | 85.3 | 72.7 | 62.7 57.9 | 77.7 4.60.0 7.00.0 7.00.0 7.00.0 |
| TONE-CORRECTED, PERC AS A FUNCTION OF ANG | E SOURCE/SUBJECT: F-100 Noise Suppressor Af32A-16 | 10 | 105.6 183.4 161.2 | 99.0 96.7 94.3 | | 89.3 86.6 83.8 | 83.8 | 67.9 62.7 | 53.3 | 48.6 43.5 37.7 31.3 |
| TONE-CO | 2E/ SUB 40I SE 16 | e. | | w w = | 9.46 | | | | o a | 51.7 47.4 42.5 36.1 |
| | SOURCE/ 100 NOI 32A-16 | 3 C | | | | | | | | |
| TABLE | NOISE SOURCE/SUBJECT F-100 NOISE SUPP AF32A-16 | DISTANCE (FEET) | 250 315 | 707 200 200 200 200 200 200 200 200 200 | 869 | 1000 1250 1600 | 2500 | 40 0 0 40 0 0 20 0 0 0 | 6300 80 a 0 | 12660 12560 16006 20000 25000 |
| | <u> </u> | ٠ | | | - - | | | | | , |

| (TABLE: | A-WEIG | A-WEIGHTED OVERALL | VERALL | Ø | DUND LEVEL | (D8A) | | | | | | | | | |) IDENTI | DENTIFICATION! OMEGA 8.2 | NOI | |
|---------------------|--|--------------------|---------------------------------------|-----------------------|--------------------------|--|--|-------------|---------------|--------------|--|----------------|-------------------------|---------------------------------------|--------------|-----------------------------|-----------------------------|-----------------------|-------------------|
| | AS | A FUNCTION | 6 | ANGLE A | AND DIST | ANCE | FROM SC | SOURCE | | | | | | | |) TEST | 77-77 | 77-730-001 | |
| (NOISE SOI | E SOURCE/SUBJECT! F-100 NOISE SUPPRESSOR AF 32A-16 | BJECT 8 | ESSOR | | | RATION: MILITAR SINGLE GROUND | RATION: MILITARY POWER SINGLE ENGINE GROUND RUNUP (SI | 97% UPPR | RPH ESSED) | * 5 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | = 59 = 29,92 = 70 | X X HC | 45 | AIRCRA DOPERATION PROFIL | 7 2 2 E | CODE CODE RSION | 730 80194 A |
| (DISTANCE ((FEET) | | 10 | 20 | 9E | 3 | 20 | 99 | 2 | ANGLE 80 | E (DEG) | EGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 230 | 95.2 | 93.3 | 97.5 | m, | 95,5 | 9.76 | 96.1 | 95.8 | 96.4 | 97.6 | φ. | 100.0 | 99.9 | 97.9 | 95.8 | 91.5 | 900 | 92.2 | 87.9 |
| 315 | 93.62 | 89.2 | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | åø | 92.8 | 93.5 | 91.6 | 93.67 | 94.1 | 93.4 | 95.0 | 95.4 | 95.2 | 93.4 | 88.4 | 63.4 | 86.3 | 98.0 | 83.7 |
| 100 | 89.1 | 87.1 | 91.1 | ۵. | 89.0 | 91.3 | 69.7 | 69,3 | 89.5 | 90.7 | 95.6 | 93.0 | 95.8 | 91.0 | 86.2 | 85.0 | 84.1 | 85.9 | 81.5 |
| 630 | 94.9 | 82.8 | 86.7 | 6 6 7 8 8 | | 86.8 | 85.2 | 64.8 | 84.6 | 85.0 85.0 | 87.6 | 87.9 | 90°2 | 86.1 86.1 | 83.9 81.6 | 62. 60.4 | 79.6 | 81.4 | 3:5 |
| 979 | 82.7 | 80.6 | 84.4 | ď | 62.1 | 84.5 | 82.8 | 82.5 | 82.0 | 83.3 | 84.9 | 85.2 | 84.7 | 83.5 | 79.2 | 78.8 | 77.3 | 79.1 | 74.8 |
| 1000 | 80.5 | 78.3 | 82.0 | | 79.6 | 82.1 | | 80.1 | 79.4 | 80.6 | 82.1 | 95.4 | | 80.8 | 76.8 | 75.5 | 6.42 | 76.8 | 72.4 |
| 1250 | 78.1 | 75.8 | 79.5 | 74.6 | 77.1 | 79.6 | 78.0 | 77.6 | 76.7 | 77.8 | 79.2 | 79.4 | 78.7 | 78.0 | 74.2 | 73.0 | 72.3 | 74.3 | 69.9 |
| 2000 | 73.0 | 70.6 | 74.2 | 6 | 71.8 | 74.3 | 72.8 | 72.4 | 70.9 | 72.0 | 72.9 | | 72.1 | 72.0 | 66.6 | 67.5 | 6.99 | 69.2 | 64.7 |
| 2500 | 69.7 | 67.4 | 71.1 | \$ | 66.7 | 71.4 | 69.8 | 69.5 | 67.8 | 66.6 | 69.5 | 69.6 | 68.5 | 68.7 | 62.3 | 64.5 | 63.9 | 66.3 | 61.7 |
| 0004 | 61.9 | 60.3 | 0 to 0 | , 6 | 61,0 | 9.49 | 63.2 | 63.1 | 60.7 | 61.7 | 62.2 | 62° 0 | 6.0 | 61.4 | 59.2 | 57.7 | 57.1 | 59.9 | 0.00 |
| 2000 | 57.3 | 56.2 | 60.3 | ŝ | 57.9 | 2.09 | 59.3 | | 2 99 | 57.6 | | | 56.4 | 57.2 | 55.5 | 53.8 | 53.2 | 56.1 | 51.0 |
| 9990 | 52.7 | 51.8 | 56.1 51.9 | áá | 6 6 6 6 8 6 8 6 | 56.4 | 55.4 | 55.1 | 52,3 | 53.2 | 70.00 10.00 10.00 | 53. 1 68. 5 | 51.8 | 52.7 | 6.0 6.0 | 40°4 | 49.8 | 51.9 | 46.7 |
| | | . ! | 1 1 | | | | | |) : | | | | | | | | | | |
| 10000 | 45.3 | 43.7 | 47.3 | \$ 5° B | 4 6 6 0 | 47.7 | 46.4 | 46.3 | 43. | 43.7 | 44.0 | 43.8 | 42.5 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 42.4 | 40.0 | 40.4 | 43.2 | 36.2 |
| 16000 | 36.7 | 36.4 | 36.9 | : 4 | į | 37.3 | 35.9 | 35.4 | 32,3 | 32.4 | 32.7 | 33.0 | 32.0 | 33.5 | 32.1 | 30.0 | 29.7 | 32.4 | 28.2 |
| 20000 | 31.9 | 28.8 | 31.1 | 3 | | 31.3 | 29.9 | 29.0 | 26.3 | 26.0 | 26.4 | 27.4 | 26.1 | 27.7 | 26.2 | 54.6 | 23.9 | 26.2 | 22.5 |
| 25000 | 26.6 | 23.1 | 25.0 | ð | å | 24.9 | 23.4 | 22.0 | 19.8 | 19.2 | 19.7 | 21.3 | 20.0 | 21.5 | 19.6 | 18.6 | 18.8 | 19.5 | 16.7 |
| | | | | | | | | | | | | | | | | | | | 1 |

| 1 | | | 6 | · ~ | | , , | | , ^ | 3 | 6 | Ĵ | _ | 2 | S | 6 | <u> </u> | _ | ~ | ^ (| v. | • | ~ | S | ~ |
|------------------------|---|--------------------|------------|------|------|-------------|---------|-----|------|----------|------|----------|------------|-------------|--------------|----------|----------|--------|-----|------------|---------|----------|--------|-------------|
| | 730 06104 A A | 180 | 87.9 | 8 | 81. | 9. | | | 72. | 69.9 | 67. | 64. | 61. | 58. | 54. | 51.0 | ģ | 45 | ; | 0 ! | 33. | 28. | 25 | 16. |
| TION: | CODE CODE ERSIO | 170 | 92.2 | 88.0 | 85.9 | 63.7 | 79.1 | : | 76.8 | 74.3 | 71.8 | 69.2 | 66.3 | 63,3 | 59.9 | 56.1 | 51.9 | 47.8 | | 7 | 200 | 32.4 | 26.2 | 19.5 |
| 10 - V | F 5 3 7 5 1 | 160 | 90.6 | 86.3 | 84.1 | 81.9 | 77.3 | • | | | | 66.9 | | | | 53.0 | | | • | 7 . | 35.1 | 29.7 | 23.9 | 16.8 |
| DENTIFO OMEGA DEST 2 | AIRC OPER PROF PAGE | 150 | 92.2 | 87.8 | 92.6 | 83.3 | 78.6 | 3 | 76.2 | 73.6 | 70.9 | 68.1 | 65.1 | 61.9 | 58.2 | 54.4 | ¥ 8° 7 | 42.4 | • | | 55.0 | 30.4 | 24.6 | 18.6 |
| | | 146 | ED M | , 4 | 6 | 84.6 | , σ | | | 6 | ~ | S | r. | 4 | ~ | 55.6 | | | | | | | 26.2 | 19.8 |
| | N N HG | 130 | 98.5 | | ~ | | ه ه | | R | _ | ~ | ۵ | | 6 | . | 57.6 | . | 10 | | | m | 10 | | 10 |
| | = 59.92 = 29.92 = 70 | 126 | |) N | • | ~ 4 | 0 P | | | ~ | ev. | 7 | r. | 80 | • | | | m | | ۸. | * | | 26.1 | |
| | SS e | 110 1 | 00.00 | | | 10 0 | | | • | 4 | m | + | 9 | 9 | 0 | | | 9 | | ~ 1 | | | 27.4 2 | |
| | OROL TENP BAR A N | | 99.6 10 | | 9 | -1 1 | 0 0 | | #1 | ~ | | ტ | 'n | | ~ | | 'n | ტ | | ٥, | ۰ | ~ | 26.4 2 | _ |
| | | DEGRE | ⊣ 0 | ۰.۵ | 12 | o : | r ac | , | -4 | . | S | ı, | m | 6 | - | | • | • | | | | | 6.0 2 | |
| | £0) | ANGLE (| 6.4 98. | , 40 | ın | 1 u | 0 = | , | æ | 7 | 8 | 6 | 6 0 | • | ٠ د | ا ا | 2 | # • | | | -, - | r) Mo | ~ | |
| (DBA) | R 97% RPH (Suppressed) | 4 40 | 60 0 | . به | m | 1 67. | o w | | ₩ | 9 | 4 | 4 | 'n | r. | - | 3 56. | - | 9 | , | ~ (| N | 3 | ů 26. | _ |
| LEVEL | lai tal | 2 | 95. | 91. | 89. | 8 | | ; | 80. | 77. | 75. | 72. | 69 | . 99 | 63. | 59 | 55 | 51. | • | • | ÷. | 35. | 29. | 22. |
| SOUND I | ENGINE RUNUP | 99 | 96.1 | 91.8 | 89.7 | 4.79 | 900 | | 86.5 | 78.0 | 75.4 | 72.8 | 69.8 | 99.1 | 63.2 | 59,3 | 55.1 | 50.9 | | | | | 59,9 | |
| OVERALL S DISTANCE | RATIONS MILITARY SINGLE EN GROUND RU | 50 | 97.8 | 93.5 | 91.3 | 89.1 | 86.0 | | 82.1 | 29.6 | 77.0 | 74.3 | 71.4 | 68.2 | 949 | 69.7 | 56.4 | 52.2 | | | 42.7 | 37.3 | 31.3 | 24.9 |
| | OPER A | 9 | 95.5 | ; 4 | ŝ | 86.7 | : < | ì | | | | | | | | 57.9 | | | | ; | ŝ | \$ | 28.9 | 'n |
| IGHT IE A | | 9g | 94.5 | ; 6 | 2 | 85.6 | ; 4 | ; | å | ŝ | 'n | ÷ | ÷ | ÷ | å | 55.9 | ÷ | å | | i, | : | 4 | 25.9 | å |
| ! 4 . ! | SSOR | 2u | 98.7 | 9.40 | 92.3 | 94.1 | 2 V 0 0 | | 83.1 | 90.6 | 78.0 | 75.3 | 72.3 | 69.0 | | 61.0 | 50.5 | 52.1 | • | 200 | 42.5 | 36.9 | 31.1 | 25.0 |
| CORRECTED, FUNCTION OF | SUPPRESSOR | 1.0 | 93.3 | 89.2 | 87.1 | 85.0 | 8 2 6 | | 78.3 | 75.8 | 73.2 | 70.6 | 67.4 | 64.0 | 61.3 | 56.2 | 51.0 | 47.9 | • | | 29.1 | 34.1 | 28.8 | 23.1 |
| ONE | | 0 | 96.1 | | | 87.9 | ی د | , | 81.4 | 79.0 | 76.5 | 73.9 | 70.6 | 66.8 | و | 57.9 | 53.1 | 49.3 | | 2 . | 71.5 | 36.7 | 31.9 | 26.6 |
| TABLES TO | NOISE SOURCE/SUE F-100 NOISE Af32A-16 | DISTANCE (FEET) | 230 | | | 000 | | 3 | | 1250 | | | | | | | | 9000 | | | | | 20030 | |

| F-120 NOISE SUPPR AF32A-16 6 (| | SUPPRESSOR | ES S S S S S S S S S S S S S S S S S S | A S S S S S S S S S S S S S S S S S S S | | | | PHILIDIS SINGLE | | , . , , , , , , , , , , , , , , , , , , | | ENGINE COMER | × 4 1 1 | SUPPRESSED | I S | 1 141 | | METEOROL TENDOL TENDOL TENDOL TA BEAR BAR BAR BAR BAR BAR BAR BAR BAR BAR B | | METEOROLOGY: TEMP BERNESS BELTA HILL OELTA N | DOG | | 6 0 X 4 | LHX F | H H H H H H H H H H | | | PNACE | TO BOTH TO BOT | SEL179 | 01 <u>. </u> | AIRCRAFT CODE OPERATION CODE OPERATION CODE OPAGE OF OPAGE OF OPAGE OF OPAGE OF OPAGE OF OPAGE O |
|--|--------------------|------------|--|---|---|---|-------------|---|---|---|---|--|-------------|------------|-----|-------------|---|---|-------------|--|-----|-------------|---------|-------|---------------------------------------|-----|-----|-------|--|--------|--|--|
| 99 69 79 | | • | • | • | • | • | • • • • • • | • | • | • • • • • | • | • | • • • • • • | • | • | • • • • • • | • | • | • • • • • • | • | • | • • • • • • | • | × . | · · · | • | • | ٠. | | • | | • |
| S E 110 C | • • • • • • | • | • | | • | • | • • • • • | • | • | • • • • • | • | • | • • • • • | • | • | • • • • • • | • | • | • • • • • | • | • | • | • | • | , × × | • | • | • | <u> </u> | • | • | • |
| 130 140 150 150 150 150 150 150 150 150 150 15 | • • • • • • | • | • | • | • | • | •••• | • | | • • • • • | • | • | • • • • • | • | • | • • • • • | • | • | • • • • • | • | • | | × | × • | • | • | ٠ . | • | • | • | • | • |
| 160 (| • • • • | | | | | | | | ı | •••• | , | ı | • • • • | | | | | | • • • • | | | · · · × | | | | a a | | · | | | | |
| 100 | | | • | | | | • • • | | | • • • • | | • | | | | | | • | • • • • | | × | | | | | | | • | ! | • | | _ • |

| | | | - | _ | _ | ~ | ~ , | | . ~ | ~ | ~ | ~ | ~ . | | | ~ | ^ | ^ | _ | ~ . | ~ - | • | ~ | | • |
|-----------------------------|--|----------------|------|-----|----|----------|----------|----------------|--------------|----|----------|----------|----------|------------|--------------|------|------|-----------|--------------|------------|--------------|----------|----------|----------|---------|
| | 730 661 03 A | 188 | 93 | 95 | 76 | 40 | | # 0 D N | 82 | 82 | 82 | 99 | 8 | D • | 9 6 | 9 | 11 | 92 | 7 | 7 | P (| 0 | 63 | 50 | 101 |
| ON : | 00E 00E SION | 178 | 93 | 96 | 69 | 6 | 1 | 2 5 | 28 | 8 | 83 | 92 | 9 | 20 | 2 0 | 82 | 7.8 | 75 | 4 i | 2 | 69 | 0 | 29 | 50 | 100 |
| FICATION 8.2 77-730-0 | - ~ ~ | 160 | 5 | 9 | 35 | 9 | 96 | # E | 9 | 82 | 96 | 8 | 90 | | | 83 | 90 | 18 | 48 | 2 | 2: | Z. | 99 | 62 | 100 |
| ! !! !! | AIRCRAFT OPERATION PROFILE 28 NOV 79 PAGE C4 | 150 | ぉ | 36 | 35 | 8 | 8 | 2 4 | 90 | 82 | 92 | 93 | 40 | | # M | 82 | 81 | 80 | 6 | 2 | 2 | و : | 9 | 99 | 100 |
| 010 | X 4 9 9 W 9 | 9 77 | 96 | 93 | 91 | 69 | 96 | 2 2 | 7.0 | 85 | 92 | † | 96 | ~ 9 | 0 6 0 | 40 | 82 | 81 | 0 | 5 | 76 | 1 | 75 | 29 | 66 |
| | N N H P | 130 | 96 | 91 | 89 | 8 | 87 | 2 6 2 6 | 8 | 69 | 87 | 87 | 87 | 5 v | 8 0 | 92 | 85 | 96 | 87 | 9 : | 4 | 10 | 92 | 72 | 100 |
| | 9.92 70 70 0 08 | 120 | 95 | 91 | 83 | 89 | 9 1 | ? . | 81 | 85 | † | 96 | 82 | | | 85 | 89 | 83 | 6 | B (| 29 | 0 | ij | 92 | 101 |
| | | 110 | 16 | 06 | 83 | 87 | 82 | £ | 2 | 79 | 82 | 82 | 96 | 5 | 9 0 | 98 | 88 | 36 | 91 | 5 (| 29 | 0 | 8 | 11 | 101 |
| | N T N N N N N N N N N N N N N N N N N N | (8) | 91 | 06 | 88 | 87 | 1 | 5 K | 5.2 | 79 | 82 | 84 | 96 | gn e | 0 40 | 96 | 96 | 96 | 87 | 9 | 96 | | 79 | | 99 |
| | METEO TEN BAR BELTA | EGRE! | 16 | 96 | 88 | 87 | 85 | 2 2 | 18 | 79 | 81 | 94 | 96 | 9 | 0 6 0 | 88 | 87 | 87 | 29 | 92 | 96 | 9 P | 79 | 92 | 100 |
| | 6 | E (0 | 51 | 91 | 68 | 96 | 0 | 2 2 | . 82 | 79 | 83 | 87 | 87 | 26 | 1 69 | 68 | 88 | 96 | 6 0 (| 92 | 80 | 19 | 22 | 4 | Ú.O |
| | WER Suppressed) | ANGL 70 8 | 69 | 88 | 86 | 82 | 36 | 80 75 | 92 | 77 | 3 | 83 | 84 | 5 | 87 | 85 | 82 | 81 | 62 | 81 | 77 | 9/ | 73 | 69 | 1 96 |
| | POWER LE (SUPP | 99 | 06 | 06 | 87 | 82 | 82 | 1 0 T | 7.8 | 77 | 81 | 85 | 85 | on e |) (C) | 98 | 83 | 82 | 1 8 | 9 | 77 | 2 | 72 | 29 | 66 |
| (08) | | 56 | | | | | | # 0 # 0 | | | | | | | | | | | | | | | | | 00 |
| LEVEL | PERATIONS AFTERBURNES SINGLE ENGI GROUND RUNU | 9 | 06 | ~ ~ | | | | 200 | | | | | | | | | | | | | | | 73 | | 1 66 |
| SURE | OPERA AFTE SING | 30 | _ | | | - | | 10 e | | | | | | | | | | | | | | | | | 66 |
| PRES | | 20 | 86 | ~ | | r. | 9 | 2 6 | , eo | • | | | | | 0 A | | | | ~ | ~ | • 0 (| | . | | - |
| SOUND BAND 258 F | SOR | 2 2 | • | - | | - | | 90 | _ | | | | | | 200 | | - | 73 | | - ' | | | 3 | _ | 96 10 |
|) | UBJECT I | - | 12 9 | | | | | 282 | | | | | | | | | | | | | | | 9 | | 9 20 |
| STA | ı v | œ | יט | יטי | ₩ | ₩. | | a) (| , 4) | סי | יט | æ | ۰ ب | · | , 4 0 | | ~ | | - | • | . | · ن | | 41 | 7 |
| | TSE SOURCE/ F-100 NOISE AF32A-16 | D CENTER | | 'n | • | 9 | io. | 9 9 | | 2 | | 9 | 9 | . | 9 9 | 9 | 9 | • | 9 | 9 | • | . | و | • | ALL |
| TABLE | NOISE F-10 AF32 | BAND C FREG | w | 9 | • | 97 | 15 | 160 | 25 | 31 | 004 | 50 | 630 | | 1250 | 1600 | 2001 | 250 | 3150 | | 200 | 930 | 300 | 1001 | OVERALL |
| | | <u>.</u> | ب . | | J | J | _ | | | J | J | J | <u> </u> | <u> </u> | <i>-</i> - | | J | J | | <u>.</u> | <u> </u> | ٠, | J | | |

| TABLE | ž . | IVED NO | NOISE LEVE | _ | PNDB) | | | 9 | | | | | | | | ONE | | LIONS | |
|---|---|-------------------------------|---------------|----------------|---------------|---------------------|---------------|--------------------|-------------------|-------|----------------------------------|----------------|-------|-----------------|--------------|--|--|--------------------|-------------------|
| NOISE SOURCE/SUB F-100 NOISE AF32A-16 | AS A TONCIL SOURCE/SUBJECT 100 NOISE SUPP 32A-16 | TONCILON OF ANGLE SUBJECT: | JECT I | | OF COPERATION | TION: FTERBINGLE | ^! ┗ ₩ | POWER (SUPPRESSED) | ESSE D) | | METEOROLOGY TEMP BAR PRE REL HUM | PRESS HUMID | =29. | 59 F 92 IN H | 9 | -) REST -) RINCRA -) OPERATO -) PROFIL -) PAGE | RUN 04 AIRCRAFT CA PROFILE VER 26 NOVE VER PAGE 04 | ODE ODE SION | 730 06103 A |
| DISTANCE (FEET) | | 10 20 | 80 | 98 | 3 | 50 | 99 | 7.0 | ANGLE | 108 | REES) | 1 3 | 1 2 | 136 | 140 | 150 | | 170 | 180 |
| 250 | 110.6 106.5 | 106.5 | 111.9 | 111.2 109.0 | 4 % 6 6 | 112.5 | | | 113.1 | 113.7 | 113.4 | 115.7 | 116.0 | 113.8 | 109.5 | | | | 106.3 |
| 318 | 106.4 | 102.2 | | 106 | | 108.1 | 10.0 | ~ ~ | · . | | 60 P | | | ~ 0 | 105.0 | | ~ 6 | | 102.0 |
| 200 | 102.0 | 97.7 | 102 | 102.0 | 2 4 | 103.4 | | | 4 0 | | 9 60 | _ | • | | 100.3 | | ο | 97.4 | 97.5 |
| 9 9 9 9 | 99.7 | 95.3 92.9 | 100.1 97.4 | 99°4 96°7 | 2° 60° | 106.9 98.3 | m h | . | 101.1 98.4 | 101.5 | 101.1 98.3 | 103.4 100.6 | 103.7 | 101.7 98.9 | 97.7 95.8 | 97.3 | 97.1 94.6 | 92.4 92.4 | 95.0 |
| 100 | 96 | 4-06 | 94.5 | A .5.0 | 4.5 | 95,6 | 8.50 | 9.26 | 96,6 | 96.7 | 95.0 | 97. F | A. 70 | 9, 40 | 92.2 | 04° | 4 | 7.04 | 80.0 |
| 1250 | 92.3 | 87.7 | 91.6 | 90.7 | 6 | 92.7 | 90.1 | 89.1 | 92,6 | 95.6 | 92.1 | 2.5 | 94.5 | 92.7 | 89.2 | 58.7 | | : 6 | 97.1 |
| 1680 | 9.69 | 6.48 | 4.69 | 87.5 | ۶, | 89.6 | 87.0 | 86.0 | 4 69 | 89.2 | 88.7 | 20.1 | 6.06 | 89.3 | 86.0 | 85.4 | 86.0 | 84.0 | 64.2 |
| 2280 7280 | 83° D | 78.0 | 85. U | 8 Pe 0 | | 86.3 | 80.2 | 79.2 | 65, 9 62, 3 | 85.6 | 85.0 | 87. 82.9 | 82.9 | 81.6 | 78.9 | 82. 0 | 8 - 5 4 2 6 - 5 | 2.00 | 77.6 |
| 3158 | 78.8 | 73.7 | 77.2 | 76.1 | | 78.7 | 76.4 | 75.5 | 78.6 | 77.6 | 76.7 | 78.3 | 78.5 | 77.4 | 75.0 | 74.2 | 75.5 | 73.7 | 73.6 |
| 000 | 7.0 | 68.8 | 72.6 | 71.6 | 72.4 | 74.3 | 72.2 | 71.4 | 400 | 73.4 | 72.4 | 73.2 | 73.6 | 73.0 | 7.0.7 | 69.6 | 71.4 | 69.6 | 69.1 |
| 6368 | 63.2 | 57.7 | 62.6 | 62.0 | : 2 | 64.0 | 62.8 | 61.9 | , 6 , 4 , 6 | 63.6 | | 63.0 | 63.1 | 63.1 | - o | 50.0 | 61.8 | 60.0 | 59.2 |
| 9000 | 29.4 | 53.7 | 57.8 | 57.2 | 58.3 | 60.2 | 58.1 | 57.1 | 60.2 | 58.9 | 57.7 | 58.1 | 58.2 | 50.5 | 56.4 | 55.4 | 57.3 | 55.4 | 54.8 |
| 10060 | 55.1 | | 52 | 51.7 | 53.1 | 55.1 | 52.7 | 51.8 | 54.9 | 53.5 | 52.2 | 52.5 | 52.9 | 53.2 | 51.2 | 50.3 | 52.4 | 50.1 | 50.1 |
| 12500 | 50.7 | | 4.5 | 4.69 | 47.2 | 48.9 | 46.8 | 45.0 | 49.0 | 47.3 | 45.9 | 46.2 | 46.5 | 47.2 | 44.8 | 4.4.4 | †6.0 | * | 44.5 |
| 16006 | 45.0 | 38.6 | 30.5 | 30.6 | 40.8 | 42.2 | 39.5 | 900 | 42.1 | 0.0 | 38.7 | 38.7 | 30.0 | 9.0 | 38.1 | 36.5 | 38.7 | 37.7 | 38.0 |
| 25888 | 33.0 | | 19 | 19.61 | 25.2 | 26.3 | 20.0 | 16.5 | 200 | 18.6 | 18.7 | 20.4 | 21.7 | 25.6 | 10.0 | 17.1 | 21.5 | 20.5 | 21.0 |
| | | | |) | | | | | ; | | | | ; | | | | | | |

| | SUNCE SUDJECT: OPERATION: TO PERATION: THE PROPERATION OF ANGLE AND DISTANCE FROM SOURCE SUDJECT: OPERATION: THE PROPERATION CORPORATION: THE PROPERATION CORPORATION OF ANGLE ENGINE MANAGEMENT OF THE PROPERATION CORPORATIO | TABLES | TONE-(| TONE-CORRECTED, PERCE | TED, P. | _ | VED NOISE | SE LEVEL | L (PNDB) | 8 | | | | | | | |) I DENT I | DENTIFICATION | TIONS | |
|--|--|----------------------|----------------------------|-----------------------|---------|-------|------------|----------|----------|-------|------------|------|---------------------------------------|-------|------|-------|----------|------------|--------------------------------------|------------------------|------------|
| SUNCE/SUBJECT: (OPERATION: TERP | SUNCE/SUBJECT: 10 NAISE SUPPRESSOR 110 NAISE SUPPRESSOR 1 TEMPORE STATEMENT CODE 111 NAISE SUPPRESSOR 1 CROUND RINNUP (SUPPRESSED) 1 TEMPORE 1 CROUND RINNUP (SUPPRESSED) 1 TEMPORE 1 CROUND RINNUP (SUPPRESSED) 1 TEMPORE 1 | | AS A F | UNCTI | 8 | 141 | | | | OURCE | | | | | | | | TES | , ~ : | L | |
| 11.6 107.4 111.9 111.2 111.4 112.5 110.0 119.3 113.1 113.7 113.4 115.7 116.0 114.4 110.5 110.0 110.6 110.6 110.0 110.0 110.0 110.0 110.0 113.4 113.7 113.4 113.8 113.8 113.8 110.0 110.0 110.6 110.6 110.0 110.0 110.0 113.8 113.8 113.8 113.8 113.8 113.8 110.0 110.6 110.6 110.6 110.0 110.0 113.8 1 | 11.6 107.4 111.9 111.2 110.4 112.5 110.0 119.3 113.1 113.7 113.4 115.7 116.0 114.4 119.5 119.0 1106.4 1106.7 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.7 1106.4 1106.7 1106.4 1106.7 1106.4 1106.7 1106.4 1106.4 1106.7 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.7 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.7 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.7 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.4 1106.7 1106.4 1106. | NOISE SO | URCE/SL G NOISE A-16 | BJECT SUPPI | | | OPER | 2 | ַ בַּשַ | OWER | ESSED) | x 6 | ETEORO TEH BAR BAR ELTA N | LOGY: | ±29. | r H X | . | PRESE | CRAFT RATION FILE VI NOV 79 | CODE CODE RS ION | L 0 |
| 111.6 107.4 111.9 111.2 110.4 112.5 110.0 119.3 113.1 113.7 113.4 115.7 116.0 114.4 109.5 107.3 106.0 110.6 110.7 110.0 110.9 110.0 | 111.6 107.4 111.9 111.2 110.4 112.5 110.0 110.3 113.1 113.4 113.4 113.4 113.4 110.0 | DISTANCE (FEET) | • | 97 | 20 | 30 | 3 | | ۰ | | ANGL 80 | 56 | REES) | 110 | . ~ | . 10 | | 150 | | 170 | 188 |
| 105-4 103-1 107-4 106-7 106-0 108-1 105-5 104-7 108-5 109-1 108-0 1111-4 109-9 107-5 102-0 104-6 104-6 104-6 104-6 105-1 106-4 103-6 105-1 106-4 105-0 107-5 102-3 106-0 105-1 106-4 105-0 107-7 102-3 106-4 105-0 107-7 102-3 106-0 105-1 106-4 105-0 107-7 102-3 106-0 105-1 106-4 105-0 107-7 102-3 106-9 107-7 102-1 107-1 103-1 106-4 105-0 107-7 102-3 107-3 99-6 107-4 108-1 108-4 105-0 106-4 105-0 107-7 102-3 99-6 107-4 108-1 108-4 106-1 108-4 108-0 107-7 102-3 99-6 99-6 107-1 108-2 108-1 108-4 108-4 108 | 107-4 103-1 107-4 106-7 106-0 108-1 105-5 104-7 108-5 119-1 1101-6 1111-4 109-9 105-0 1104-6 1104-5 102-1 1105-1 105-6 1105-0 1105-6 1105-0 1104-6 1105-0 11 | 230 | 111.6 | 107.4 | 111.9 | 111. | 4 | 112.5 | - 6 | ma | -100 | | 3 4 | | - | • • | 109.5 | | ود وي | | 106.3 |
| 14C2 9 96.6 1102.1 1204.1 1102.1 1204.1 1101.2 143.6 1104.2 1402.1 1204. | 182. 1810. 1 10. 1 10. 1 10. 1 10. 2 10. 2 10. 2 10. 2 10. 2 10. 1 10. 1 10. 2 | 315 | 107.4 | 103.1 | 107.4 | 106 | <u>.</u> ه | 108.1 | 10.0 | . ~ . | 6 | | 1 6 0 F | 1 | | | 105.0 | ء م | . ~ . | | 102.0 |
| 100.6 96.2 100.1 99.4 90.6 100.9 90.3 97.4 101.1 101.5 101.1 103.7 102.3 97.7 97.3 97.1 95.0 98.3 97.1 98.3 97.1 95.0 98.3 97.4 101.1 101.5 101.1 103.7 102.3 97.5 97.5 97.6 97.5 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6 | 100.6 96.2 100.1 99.4 90.6 100.9 90.3 97.4 101.1 101.5 101.1 103.4 103.7 102.3 97.7 97.3 97.1 95.0 96.6 39.8 93.8 97.4 96.7 95.9 90.3 95.7 94.6 98.7 98.3 100.6 100.9 99.5 95.0 94.6 94.6 92.4 96.7 98.3 97.4 95.0 94.6 97.5 97.8 97.3 97.1 97.3 97.1 95.4 98.3 97.4 98.3 97.4 97.3 97.4 95.0 96.2 98.3 97.4 97.5 97.6 97.6 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 | 200 | 162.6 | 4 | | 102 | 8 -2 | 103.4 | u eo | a m | م . | ٠. | 2 60 | _ | | | 100.3 | ാത | n o | | 97.5 |
| 98.3 93.8 97.4 96.7 95.9 98.3 95.7 94.8 98.4 98.7 98.3 100.6 100.9 99.5 95.0 94.6 94.6 92.4 98.3 93.8 97.4 96.7 95.8 93.8 97.4 96.7 99.8 93.8 93.8 93.8 93.8 93.8 93.8 93.8 | 98.3 93.8 97.4 96.7 95.9 98.3 95.7 94.8 98.4 98.7 100.6 110.9 99.5 95.0 94.6 94.6 92.4 92.4 93.8 97.4 96.7 95.8 97.8 97.8 97.8 97.8 97.8 95.0 94.6 94.6 94.6 92.4 92.6 92.1 94.5 97.8 96.9 95.2 91.8 99.8 93.8 93.1 95.6 93.1 92.7 92.6 92.6 92.1 94.5 97.8 96.9 96.7 96.7 94.9 94.5 93.8 93.8 93.1 92.7 90.1 89.1 92.6 92.6 92.1 94.5 97.8 96.9 86.0 85.0 86.0 86.0 94.0 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8 | 989 | 100.6 | | 100 | 9 % e | å, | 100.9 | M | | ⊶. | | -4 | | | - | 97.7 | m | - | | 95.0 |
| 95.6 91.3 94.5 93.6 93.1 95.6 93.1 92.0 95.0 95.7 95.2 97.5 97.5 97.5 97.2 91.5 91.6 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8 | 95.6 91.3 94.5 93.8 93.1 95.6 93.0 95.0 95.7 95.2 97.5 97.5 97.5 95.2 91.8 99.0 91.8 99.7 93.3 89.2 84.7 91.8 91.8 91.8 91.8 91.8 91.8 91.8 91.8 | 9 9 | 98.3 | | 97. | 96.7 | ŝ | 98•3 | 95.7 | 80 | * | 98.7 | m | ω. | σ. | | 92.0 | ω. | Δ. | | 95.5 |
| 93.2 88.6 91.6 91.6 90.7 90.1 92.7 90.1 89.1 92.6 92.6 92.1 94.2 94.5 93.3 69.2 88.7 89.0 86.9 86.9 96.9 96.9 90.5 88.8 88.6 88.6 87.0 88.0 89.6 87.0 88.0 89.4 87.2 88.7 90.7 90.9 89.9 86.0 85.4 86.0 84.0 84.0 87.2 88.7 90.7 90.9 89.9 86.0 85.4 86.0 84.0 87.0 87.2 87.0 87.0 87.0 87.0 87.0 87.0 87.0 87.0 | 93.2 88.6 91.6 91.6 90.7 90.1 92.7 90.1 89.1 92.6 92.6 92.1 94.2 94.5 93.3 69.2 88.7 89.0 86.9 90.5 85.8 88.8 88.6 85.8 85.8 88.9 86.0 85.4 86.0 84.0 87.2 88.7 90.7 90.9 89.9 86.0 85.4 86.0 84.0 83.9 90.5 85.8 85.8 85.8 85.8 85.8 85.8 85.8 8 | 1000 | 95.8 | 91.3 | 94. | 93.8 | | 95.6 | 93. 8 | 95.0 | 95.6 | 95.7 | 95.2 | 97.5 | 97.8 | 96.5 | 92.2 | 91.8 | 91.8 | Ġ | 89.9 |
| 90.5 85.6 86.4 86.5 87.0 85.0 87.0 85.1 89.4 89.2 88.7 90.7 90.9 86.0 85.0 85.0 86.0 86.0 86.0 87.0 87.1 87.2 88.7 90.7 90.9 85.0 85.0 85.0 85.0 86.0 86.0 86.0 86.0 87.1 87.2 87.3 87.2 87.3 87.4 87.2 87.3 87.4 87.2 87.3 87.4 87.4 87.5 87.3 87.4 87.4 87.4 87.4 87.4 87.4 87.4 87.4 | 90.5 85.6 98.4 86.5 87.0 85.0 87.0 89.4 89.5 88.7 90.7 90.9 85.0 85.0 85.0 84.0 87.0 87.7 90.5 85.8 98.0 85.0 85.0 85.0 84.0 87.7 87.7 87.7 87.8 95.0 85.0 85.0 87.0 85.0 85.0 85.0 87.0 87.0 87.0 87.0 87.0 87.0 87.0 87 | 1250 | 93.2 | 88.6 | 91 | 90.7 | | 92.7 | 90.1 | 89.1 | 92.6 | 95.6 | 92.1 | 94.2 | 94.5 | 93.3 | 89.2 | 88.7 | 89.0 | 86.9 | 87.1 |
| 83.9 76.9 81.3 81.4 81.5 81.5 81.7 76.4 75.5 76.5 81.7 78.9 82.9 82.9 82.9 78.9 76.2 77.4 77.4 77.4 75.5 77.6 76.7 78.6 78.7 78.7 78.9 77.5 77.4 77.2 76.1 76.4 77.2 78.4 77.6 78.7 78.7 78.3 78.5 78.6 78.7 78.9 78.5 78.9 78.5 78.9 78.5 78.9 78.5 77.4 77.4 79.7 74.6 77.2 76.1 76.4 77.2 78.4 77.4 78.4 77.4 78.4 77.4 78.5 78.6 78.5 78.6 78.9 78.7 78.9 78.7 78.9 78.5 78.7 78.9 78.5 78.7 78.9 78.5 78.0 78.0 78.5 78.9 78.5 78.4 78.6 78.6 78.6 78.6 78.6 78.6 78.6 78.6 | 83.9 76.9 81.3 81.2 81.3 82.7 81.2 79.2 82.3 81.7 81.9 82.9 82.9 82.9 78.5 78.9 76.2 77.4 81.3 81.3 81.3 81.3 81.4 76.4 75.5 77.6 77.6 76.7 78.3 78.5 78.6 77.2 76.1 76.4 75.5 77.4 77.4 69.5 77.2 76.1 76.4 76.4 75.5 77.6 77.6 77.6 77.5 77.6 77.5 77.6 77.5 76.1 67.7 67.7 67.7 68.2 68.3 68.7 66.1 65.1 66.7 65.1 66.7 65.1 65.1 65.1 65.1 65.1 65.1 65.1 65.1 | 1666 | 90.5 | 9.20 | 80 W | | | 9.69 | 3 - 10 | 86.0 | 4°6 | 89.2 | 68.7 | 7 90 | 96.0 | 89.9 | 86.0 | | 86.0 | 7.0 | 84.0 |
| 79.7 74.6 77.2 76.1 76.4 75.5 78.6 77.6 76.7 78.3 78.5 78.6 77.6 78.7 78.3 78.5 78.0 75.0 74.2 75.5 73.7 73.7 75.6 73.5 73.5 73.7 74.6 73.7 75.6 73.6 73.5 73.5 73.5 73.5 73.5 73.7 69.8 73.6 73.5 73.7 69.8 73.6 73.8 73.6 73.5 73.7 69.8 73.6 73.8 73.6 73.7 65.1 65.1 65.1 65.1 65.1 65.1 65.1 65.1 | 79.7 74.6 77.2 76.1 76.4 75.5 78.6 77.6 76.7 78.3 78.5 78.6 77.5 73.5 73.5 73.5 73.5 73.5 73.7 74.6 77.5 73.5 73.5 73.5 73.5 73.5 73.5 73.5 | 2500 | 93.0 | 78.9 | 81. | 9 | | 82.7 | 80.2 | 79.2 | 82.3 | 81.7 | 80.9 | 82,9 | 82.9 | 82.2 | 78.9 | 78.2 | 79,3 | 77.4 | 77.6 |
| 74.0 69.5 72.6 71.6 72.4 72.2 71.4 74.4 73.4 72.4 73.2 73.5 73.5 70.7 69.6 71.4 69.6 69.3 69.3 67.7 67.7 68.2 68.3 68.7 66.0 65.1 66.1 65.1 66.7 65.0 63.0 63.1 66.7 65.0 65.1 65.1 65.1 65.1 65.1 65.1 65.1 65.1 | 74.0 69.5 72.6 71.6 72.4 74.3 72.2 71.4 74.4 73.4 72.4 73.2 73.5 73.5 70.7 69.0 71.4 69.6 69.3 69.3 67.7 67.7 68.2 68.3 68.7 66.1 65.1 66.7 65.0 63.1 65.7 65.0 63.1 65.1 65.1 65.1 65.1 65.1 65.1 65.1 65 | 3150 | 79.7 | 74.6 | 7. | 76. | | 7.02 | 76.4 | 75.5 | 78.6 | 77.6 | 76.7 | 78.3 | 78.5 | 78.0 | 75.0 | 74.2 | 75.5 | 73.7 | 73.6 |
| 69.3 63.9 67.7 67.0 67.8 69.8 67.7 66.9 69.9 68.7 67.7 68.2 68.3 68.7 66.0 65.1 66.7 65.0 63.0 63.0 63.0 63.0 63.0 63.0 63.0 63 | 69.3 63.9 67.7 67.0 67.8 69.8 67.7 66.9 69.9 68.7 67.7 68.2 68.3 68.7 66.0 65.1 66.7 65.0 63.6 63.6 63.6 63.6 63.1 63.3 68.9 66.0 65.1 65.0 63.0 63.6 63.6 63.0 63.1 63.3 68.9 69.9 61.8 68.0 63.6 63.0 63.1 63.3 68.9 69.9 61.8 68.0 63.0 63.0 63.1 63.2 68.9 69.9 61.8 68.0 63.0 63.0 63.0 63.1 63.2 68.9 69.9 61.8 68.0 63.0 63.0 63.0 63.0 63.0 63.0 63.0 63 | 0004 | 74.8 | 69.5 | 72. | 71. | å | 74.3 | 72.2 | 7.1.4 | 7.4.4 | 73.4 | 72.4 | 73.2 | 73.6 | 73.5 | 70.7 | 6 | 71.4 | 9•69 | 69.1 |
| 63.6 58.1 62.6 52.6 52.8 64.8 52.8 54.9 54.9 53.6 52.5 63.8 63.3 58.9 59.9 51.6 58.0 58.0 53.6 59.9 61.6 68.0 59.6 63.0 53.6 57.2 58.3 58.9 57.2 58.3 58.0 57.2 58.3 58.0 57.2 58.4 57.3 55.4 57.3 55.4 57.3 55.4 58.1 55.4 58.1 55.4 58.1 55.4 58.1 55.4 58.1 55.4 58.1 55.4 58.1 58.7 44.8 44.8 44.1 45.0 57.2 44.8 44.1 45.0 47.2 44.8 44.1 45.0 47.2 44.8 44.1 45.1 57.3 45.9 45.8 45.8 42.1 40.1 36.7 37.7 38.6 46.6 38.6 38.6 38.6 38.6 38.6 38.7 37.7 48.6 38.7 37.7 48.6 38.6 38.6 38.6 38.7 57.7 59.4 58.4 58.4 58.7 58.6 58.6 58.6 58.6 58.6 58.6 58.6 58.6 | 63.6 58.1 62.6 52.6 52.8 64.8 52.8 54.9 54.9 53.6 52.5 63.8 63.3 58.9 59.9 51.6 60.9 59.9 61.6 60.0 59.6 53.6 53.6 52.5 63.1 63.3 58.9 57.2 58.9 51.6 50.0 59.9 61.6 60.0 59.6 53.9 57.1 58.1 59.6 53.2 51.2 58.4 57.3 55.4 58.1 59.6 53.2 51.2 58.2 57.2 58.1 55.4 58.1 59.7 44.9 47.2 44.9 47.2 46.9 47.3 45.9 49.0 47.3 45.9 46.2 46.2 46.2 47.2 44.8 44.1 45.0 44.4 45.9 38.6 38.5 38.6 34.0 33.6 31.0 33.6 31.0 33.6 31.0 33.6 31.0 33.6 31.0 33.6 31.0 29.9 38.5 31.8 33.8 38.7 29.4 31.8 29.8 33.6 33.8 38.7 29.4 31.8 29.8 33.6 21.7 25.4 19.9 17.1 21.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28 | 9000 | 69.3 | 63.9 | 67. | 67. | | 8.69 | 67.7 | 6.99 | 6 % | 68.7 | 67.7 | 68.2 | 68.3 | 68.7 | 99 | ś. | 2 99 | 65.0 | 64.3 |
| 55.1 49.0 52.4 51.7 53.1 55.1 52.7 51.8 54.9 53.5 52.2 52.5 52.9 53.2 51.2 50.3 52.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.1 50.1 50.1 50.1 50.1 50.1 50.1 | 55.1 49.0 52.4 51.7 53.1 55.1 52.7 51.8 54.9 53.5 52.2 52.5 52.9 53.2 51.2 50.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.4 50.1 50.2 51.2 50.2 51.2 50.3 52.4 50.1 50.7 44.8 45.3 45.3 45.3 45.9 46.2 46.5 47.2 44.8 44.1 45.0 44.4 45.9 30.7 44.8 40.6 30.7 50.8 30.8 30.8 30.8 30.7 30.7 30.8 30.8 30.8 30.7 30.4 31.8 50.8 30.8 30.8 30.8 30.8 30.8 30.8 30.8 3 | 900 | 0 0 0 0 | 2001 | 20 | 9 7 9 | 200 | • | 97,0 | 01° | • | 9 0 | 62.5 | 200 | 63.1 | 500 | 60.0 | ÷ , | 61.0 | 90 | 2.66 |
| 55.1 49.0 52.4 51.7 53.1 55.1 52.7 51.8 54.9 53.5 52.2 52.9 53.2 51.2 51.2 50.3 52.4 50.1 50. 50.7 44.3 45.7 44.9 47.2 48.9 46.8 45.9 49.0 47.3 45.9 46.5 47.2 44.8 44.1 46.0 44.4 44. 45.9 38.6 38.5 38.6 40.8 42.2 39.5 38.3 42.1 40.0 38.7 38.7 38.8 40.6 38.1 36.5 38.7 37.7 38. 40.0 32.4 30.6 31.0 33.6 34.6 30.7 29.8 33.3 31.0 29.9 30.5 31.8 33.8 30.7 29.4 31.8 29.8 31.8 33.6 24.7 25.4 19.5 19.5 20.5 21. | 55.1 49.0 52.4 51.7 53.1 55.1 52.7 51.8 54.9 53.5 52.2 52.9 53.2 51.2 51.2 50.3 52.4 50.1 50. 50.7 44.3 45.7 44.9 47.2 48.9 46.8 45.9 49.0 47.3 45.9 46.2 46.5 47.2 44.8 44.1 46.0 44.4 44. 45.9 38.6 38.5 38.6 40.8 42.2 39.5 38.3 42.1 40.0 38.7 38.7 38.7 48.6 58.1 36.5 38.7 37.7 38. 40.0 32.4 30.6 31.0 33.6 34.6 30.7 29.8 33.3 31.0 29.9 30.5 31.8 33.8 30.7 29.4 31.8 29.8 31.8 33.6 30.7 29.4 31.8 29.8 31.8 33.6 51.8 20.5 21.8 21.8 21.8 20.5 21.8 21.8 21.8 21.8 21.8 21.8 21.8 21.8 | 9 | 2300 | | | 200 | 000 | 7.80 | 1.00 | 1.10 | 7 • 10 | | : | 1 100 | 200 | 200 | • | : | ? | • | • |
| 50.7 44.3 45.7 44.9 47.2 48.9 46.8 45.9 49.0 47.3 45.9 46.2 46.5 47.2 44.8 44.1 46.0 44.4 44. 45.9 38.6 38.5 38.6 40.8 42.2 39.5 38.3 42.1 40.0 38.7 38.7 38.8 40.6 38.1 36.5 38.7 37.7 38. 40.0 32.4 30.6 31.0 33.6 34.6 30.7 29.8 33.3 31.0 29.9 30.5 31.8 33.8 30.7 29.4 31.8 29.8 31. 33.6 24.7 19.5 19.6 25.2 26.3 20.0 16.5 23.8 18.4 18.7 20.4 21.7 25.4 19.9 17.1 21.5 20.5 21. | 50.7 44.3 45.7 44.9 47.2 48.9 46.8 45.9 49.0 47.3 45.9 46.2 46.5 47.2 44.8 44.1 46.0 44.4 44. 45.9 38.6 38.5 38.6 40.8 42.2 39.5 38.3 42.1 40.0 38.7 38.7 38.8 40.6 38.1 36.5 38.7 37.7 38. 40.0 32.4 30.6 31.0 33.6 34.6 30.7 29.8 33.3 31.0 29.9 30.5 31.8 33.8 30.7 29.4 31.8 29.8 31. 33.6 24.7 19.5 19.6 25.2 26.3 20.0 16.5 23.8 18.4 18.7 20.4 21.7 25.4 19.9 17.1 21.5 20.5 21. | 10000 | 55.1 | 0.64 | 52. | 51.7 | | 55.1 | 52.7 | 51.8 | | 53.5 | 52.2 | 52,5 | 52,9 | 53.2 | 51.2 | 50.3 | 52.4 | 50.1 | 50.1 |
| 45.9 38.6 38.5 38.6 40.8 42.2 39.5 38.3 42.1 40.8 38.7 38.7 38.8 40.6 38.1 36.5 38.7 37.7 38. 40.0 32.4 30.6 31.0 33.6 34.6 30.7 29.8 33.3 31.0 29.9 30.5 31.8 33.8 30.7 29.4 31.8 29.4 31.3 29.8 31. 33.6 24.7 19.5 19.6 25.2 26.3 20.0 16.5 23.8 18.4 18.7 20.4 21.7 25.4 19.9 17.1 21.5 20.5 21. | 45.9 38.6 38.5 38.6 40.8 42.2 39.5 38.3 42.1 40.8 38.7 38.7 38.8 40.6 38.1 36.5 38.7 37.7 38. 40.8 32.4 30.6 31.8 33.6 34.6 30.7 29.8 33.3 31.8 29.9 30.5 31.8 33.8 30.7 29.4 31.8 29.8 31. 33.6 24.7 19.5 19.6 25.2 26.3 20.8 16.5 23.8 18.4 18.7 20.4 21.7 25.4 19.9 17.1 21.5 20.5 21. | 12500 | 50.7 | 44.3 | ÷5. | ÷ | | 48.9 | 46.8 | 45.9 | | 47.3 | 45.9 | 46.2 | 46.5 | 47.2 | 44.8 | 44.1 | 46.0 | 4.4.4 | 44.5 |
| 40.0 32.4 30.6 31.0 33.6 34.6 30.7 29.8 33.3 31.0 29.9 30.5 31.8 33.8 30.7 29.4 31.8 29.8 31. 33.6 24.7 19.5 19.6 25.2 26.3 20.0 16.5 23.8 18.4 18.7 20.4 21.7 25.4 19.9 17.1 21.5 20.5 21. | 40.0 32.4 30.6 31.0 33.6 34.6 30.7 29.8 33.3 31.0 29.9 30.5 31.8 33.8 30.7 29.4 31.8 29.8 31. 33.6 24.7 19.5 19.6 25.2 26.3 20.0 16.5 23.8 18.4 16.7 20.4 21.7 25.4 19.9 17.1 21.5 20.5 21. | 16000 | 45. 9 | 39.6 | 36. | 38 | 40° | 45.2 | 39.5 | 38.3 | | 40.0 | 36.7 | 38, 7 | 38.8 | 46.5 | 38.1 | 36.5 | 38.7 | 37.7 | 38.0 |
| 33.6 24.7 19.5 19.6 25.2 26.3 20.0 16.5 23.8 18.4 16.7 20.4 21.7 25.4 19.9 17.1 21.5 20.5 21. | 33.6 24.7 19.5 19.6 25.2 26.3 20.0 16.5 23.8 18.4 16.7 20.4 21.7 25.4 19.9 17.1 21.5 20.5 21. | 57000 | 40.0 | 32.4 | 30. | 31. | 33.6 | 34.6 | 30.7 | 29.8 | | 31.0 | 29.9 | 30.5 | 31.8 | 33.8 | 30.7 | 29.4 | 31.8 | 29.8 | 31.3 |
| | | 25000 | 33,6 | 24.7 | 19. | 19 | 25,2 | 26.3 | 20.0 | 16.5 | | 18.4 | 18.7 | 20.4 | 21.7 | 25.4 | 19.9 | 17.1 | 21.5 | 20.5 | 21.0 |

| | • | FUNCTION | OF A | ⋖ | 2 | DISTANCE | FROM S | SOURCE | | | | | | | |) OMEGA | OMEGA 6.2 TEST 77-730-00 | 30-01 | |
|--------------------|--------------------|-----------------------|---------|-------------------------|---|----------|--------|----------------------------|-------------|------------------------|--|----------------|----------------------------|---|------------------|--|-----------------------------|------------------------|--------------|
| NOISE SON | RCE/ NOI -16 | BJECT : SUPPRESSOR | 4 | | OPERATIONS AFTER SINGLE GROUND | ! 2 | RNER P | POWER E (Suppressed) | ESSED) | | HETEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | = 59,92 = 29,92 = 70 | 2 I I I I I I I I I I I I I I I I I I I | | AIRCRAF) OPERATI OPERATI PROFILE 26 NOV | _FS^s | CODE CODE RS ION | 730 86163 |
| DISTANCE (FEET) | 0 | 81 | 50 | 98 | 9 | 50 | 9 | 92 | ANGLE 80 | | (DEGREES) 90 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 188 |
| 2002 | 98.2 | 92.8 | 98.7 | 97.8 | 98.0 | 100.4 | 98.6 | 97.6 | ~ | 100.2 | 99.5 | | 101.4 | 4.66 | 96.2 | | 96.2 | 96.4 | 93.7 |
| 250 315 | 96.1 | 90.8 | 96.0 | 95.7 | 95.0 | 98.3 | 96.5 | 95.5 | 98.6 | 0 00 00 00 00 00 | 97.0 | 96.7 | 99.1 | 95.0 | 94.0 | 93.2 | 94.1 | 92.3 | 91.0 |
| 004 | 92.0 | 86.6 | 92.1 | 91,3 | 91.5 | 93.9 | 92.2 | 91.1 | 2 * 46 | 93.5 | 92.7 | 94.3 | 94.4 | 92.7 | 1.69 | 99.9 | 89.8 | 86.0 | 87.4 |
| 200 | 89.9 | 84.5 | 69.0 | 89.0 | 69.3 | 91.7 | 60.0 | 86.9 | 91.9 | 91.2 | 90.3 | 91.9 | 91.9 | 100 | 87.4 | 86.5 | 87.7 | 85.9 | 85.2 |
| 9 0 | 85.6 | 80.1 | 85.2 | 8 to 3 | 84.7 | 87.1 | 85.3 | 8.4° 3 | 87.2 | 86.3 | 85.3 | | 86.7 | 92. 5 | 82.8 | 61.9 | 63.1 | 61.4 | 80.7 |
| 1000 | 4.58 | 77.A | A2. 7 | 91.0 | A 2. 4 | 84.7 | 92.0 | 917 | 84.7 | A3.7 | 82.7 | 86.0 | 86.8 | A3. B | 40.4 | 70.5 | 8.08 | 79.1 | 78.4 |
| 1250 | 81.0 | 75.4 | 80.1 | 79.3 | 6.62 | 82.1 | 8 | 4.62 | 82.1 | 81.0 | 80.0 | 81.2 | 81.1 | 80.3 | 77.9 | 76.9 | 78.4 | 76.7 | 76.1 |
| 1600 | 78.5 | 72.8 | 77.4 | 76.7 | 77.3 | 79.5 | 77.9 | 76.8 | 79.5 | 78.3 | 77.2 | 78.2 | 78.1 | 77.5 | 75.2 | 74.3 | 75.8 | 74.2 | 73.5 |
| 2000 | 76.0 | 70.2 | 74.6 | 73.9 | 74.7 | 26.8 | 75.2 | 74.1 | 76.7 | 75.4 | 74.3 | 75.2 | 75.0 | 74.7 | 72.5 | 71.6 | 73.2 | 71.6 | 70.9 |
| 2500 | 72.7 | 6.9 | 71.5 | 6 ° C | 71.0 | 73.9 | 72.3 | 71.2 | 73.8 | 72.4 | 71.3 | 21.9 | 71.7 | 71.6 | 9.69 | 68.6 | 78.3 | 68.8 | 99 |
| | 65.2 | 50.0 | 7 ° ° ¢ | 0 - 4 0 - 4 0 - 4 | , c | 67.2 | 7 6 | 1 4 | 7.07 | 65.7 | , to e | 6.4 | 9 9 9 | 66. C | \$ 0.4 \$ 0.4 | 62.4 | 54.8 64.8 | 62.6 | |
| 5030 | 6.09 | 54.7 | 9 | 60.1 | 61.3 | 63.4 | 62.0 | | 63.4 | 61.0 | 60.6 | 8 8 | 60.5 | 60.7 | 58.9 | 57.9 | 50.0 | 56.5 | 57.3 |
| 6300 | 56.3 | 56.2 | 56.3 | 55.7 | 57.0 | 59.1 | 57.8 | 56.7 | 59.2 | 57.5 | 56.3 | 56.3 | 56.0 | 56.3 | 54.6 | 53.5 | 55.6 | 54.5 | 53.1 |
| 8000 | 52.6 | 46.4 | 51.9 | 51.4 | 52.9 | 54.8 | 53.5 | 52.5 | 54.9 | 53.2 | 52.0 | 52.1 | 51.7 | 52.2 | 90.0 | | 51.6 | 50.5 | 49.1 |
| 10030 | 48.6 | 45.4 | 47.0 | 46.7 | 4 8.4 | 50.5 | 48.8 | 47.7 | 50.3 | 48.5 | 47.4 | 47.5 | 47.1 | 47.8 | 46.1 | 45.1 | 47.1 | 45.9 | 4.0 |
| 12580 | 44.3 | 38.1 | 41.7 | 41.6 | 43.5 | 45.1 | 43.5 | 45.4 | 45.1 | 43.2 | 42.3 | 45.4 | 42.1 | 43.0 | 41.3 | 41.1 | 42.2 | 41.1 | 40.2 |
| 15000 | 39.6 | 33.5 | 35.8 | 36.0 | 38.0 | 39.5 | 37.6 | 36.5 | 39, 3 | 37.4 | 36.7 | 36.8 | 36.6 | 37.7 | 36.0 | 34.8 | 36.9 | 35.9 | 35.1 |
| 20000 | 34.6 | 28.6 | 29.6 | 30.0 | 32, 1 | 33.3 | 31.1 | 39.0 | 32.9 | 31.0 | 30.4 | 30.7 | 30.6 | 31.9 | 30.1 | 29.1 | 31.0 | 30.0 | 29.5 |
| | | | | | | | | | | | | | | | | | | | |

· 1 29.00

| NOTSE SUDRCE/SUB-JECT1 (OPERATION | MISTE SOUNCE/SUBJECT: F-100 NOTE NOTE | TABLE: | TONE-C | TONE-CORRECTED, A AS A FUNCTION OF | | A-WEIGHTED ANGLE AND | | OVERALL S OISTANCE | SOUND L | LEVEL () SOURCE | (D8A) | | | | | | | OFFICE TEST | DENTIFICATIONEGA 6.2 TEST 77-730 | IFICATIONS 1 6.2 77-730-801 | |
|---|--|--------------------|---|---------------------------------------|-------------|-------------------------|--------|-----------------------|-----------------|--------------------|---------|------|---------------------------------------|---------|-------|-------|------|---|-------------------------------------|-----------------------------|-------------------|
| 93.1 93.7 98.7 98.8 98.0 108.4 98.6 97.6 101.7 120.2 99.5 101.2 101.4 100.1 96.2 95.3 96.2 97.1 91.7 98.5 95.5 98.5 98.5 98.5 98.5 98.6 97.6 101.7 120.2 101.4 100.1 96.2 97.5 97.5 98.5 98.5 98.6 97.6 101.7 120.2 101.4 100.1 96.2 97.5 98.5 98.5 98.6 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 | Carrolle | NON NON NON | URCE/SU D NOISE A-16 | BJECT 8 SUPPR | E S S O S E | | 9 8 | | ENGINE RUNCP | OWER | ESSED) | ž ö | ETEORO TEM BAR BAR ELTA N | S S S S | =29. | FHX | | P S D D D D D D D D D D D D D D D D D D | RAFT RATION FILE VE 10V 79 | CO DE CO DE RS 10N | 738 00103 A |
| 99.1 93.7 98.7 97.8 96.0 1006.4 98.6 97.6 1011.7 1100.2 99.5 1011.4 100.1 96.2 95.3 96.2 95.1 91.1 91.1 91.1 96.5 95.7 95.9 98.3 96.5 95.6 98.0 97.3 99.0 99.1 1011.4 100.1 96.5 95.3 96.2 95.1 91.1 91.2 1011.4 100.1 96.5 95.7 95.9 98.3 96.5 95.5 96.5 95.6 96.0 97.3 99.0 99.1 99.1 97.8 96.5 95.2 94.1 97.8 95.6 94.2 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 | 99.1 93.7 96.7 97.8 98.0 100.4 96.6 97.6 100.7 100.2 99.5 101.2 101.4 100.0 96.2 95.3 96.2 95.3 96.4 97.8 99.0 97.3 99.0 99.1 97.8 99.0 99.1 97.8 99.0 99.1 97.8 99.0 99.1 97.8 99.0 99.1 97.8 99.0 99.2 99.2 99.2 99.2 99.2 99.2 99.2 | DISTANCE (FEET) | ! | 97 | 02 | 9, | 3 | 50 | 99 | 02 | ANGLE | OEC | REES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 787 |
| 97.1 91.7 96.5 95.7 95.9 96.3 96.5 95.6 98.6 99.0 97.3 99.0 99.1 99.1 99.2 99.6 95.6 96.1 97.8 99.0 99.1 99.2 99.0 99.1 99.1 99.1 99.2 99.2 99.2 99.2 99.2 | 97.1 91.7 96.5 95.7 95.9 90.3 96.5 95.5 96.6 99.0 97.3 99.1 99.1 97.8 99.0 99.1 97.8 99.0 99.1 97.8 99.0 99.1 97.8 99.0 99.1 99.2 99.8 96.6 99.8 95.6 95.6 97.8 99.0 97.8 99.0 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 | 200 | 99.1 | 93.7 | 98.7 | | | 100.4 | 98.6 | 9.76 | 100.7 1 | | 99.5 | 101.2 | 101.4 | 100.0 | 96.2 | 95.3 | | 94.4 | 93. |
| 95.4 63.5 94.5 94.5 94.7 94.7 94.5 94.6 94.6 95.7 94.6 95.7 94.6 93.8 94.6 93.8 69.8 97.8 97.8 97.8 94.9 94.6 94.9 94.6 94.9 94.9 94.8 94.9 94.9 94.9 94.9 94.9 | 92.9 87.5 92.1 94.3 94.5 93.9 92.2 93.5 95.7 95.7 95.8 95.7 95.8 95.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97 | 250 | 97.1 | 91.7 | 96.5 | ŵ, | o + | 98.3 | 96.5 | 95.5 | 98.6 | | 97.3 | 99.0 | 99.1 | 97.8 | 94.6 | 93.2 | 94.1 | 92.3 | 91.6 |
| 90.8 85.4 89.9 89.0 89.3 91.7 89.9 88.9 91.2 90.3 91.9 91.9 91.9 91.9 91.9 91.9 91.9 87.4 86.5 87.7 86.6 89.5 88.7 87.9 86.7 86.7 86.7 86.6 85.1 87.4 86.5 87.7 86.6 89.5 88.7 87.9 86.7 86.7 86.1 87.4 86.5 87.1 87.4 86.5 81.0 87.4 88.6 85.1 87.4 86.5 87.7 86.6 87.2 87.2 87.3 87.4 87.7 87.8 87.2 87.3 87.2 87.3 87.3 87.2 87.3 87.3 87.3 87.3 87.3 87.3 87.3 87.3 | 90.8 65.4 69.9 69.0 69.3 91.7 69.9 68.9 91.9 91.2 90.3 91.9 91.9 91.9 91.9 91.9 91.9 91.9 91 | 515 6.00 | 9.00 | 87.5 | 92.4 | . | _ 6 | 0.00 | 20.00 | 93.5 | * 0 | | 92.0 | , e e | 96.0 | 0.00 | 89.7 | 97.0 | 89.8 | 7.00 | 87.6 |
| 86.5 61.0 85.2 84.5 86.7 67.1 85.4 87.7 66.6 89.5 88.7 87.9 89.4 89.4 89.4 88.6 85.1 64.3 85.4 85.8 86.7 86.7 86.7 86.7 86.1 82.8 81.9 03.1 86.5 86.7 86.7 86.7 86.7 86.7 86.1 82.8 81.9 03.1 86.5 81.9 82.8 81.9 82.8 81.9 82.8 81.9 82.8 81.9 82.8 81.9 82.8 81.9 82.8 81.9 82.8 81.9 82.8 81.1 81.2 81.3 81.1 81.2 81.3 81.1 81.2 81.3 81.1 81.2 81.3 81.1 81.2 81.3 81.1 81.2 81.3 81.1 81.2 81.3 81.1 81.2 81.3 81.1 81.2 81.3 81.1 81.2 81.3 81.3 81.3 81.3 81.3 81.3 81.3 81.3 | 86.5 81.0 85.2 87.5 86.7 87.1 89.4 87.7 86.6 89.5 88.7 87.9 89.4 89.4 89.4 88.6 85.1 84.3 85.4 86.5 81.0 85.2 85.4 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86.7 | 200 | 90.8 | 85.4 | 89.9 | 6 | m | 91.7 | 69,9 | 6.8 | 91.9 | | 90.3 | 91.9 | 91.9 | 91.0 | 87.4 | 86.5 | 87.7 | 85.9 | 85.2 |
| 86.5 81.0 85.2 84.3 84.7 87.1 85.3 87.2 85.3 85.7 86.7 86.7 86.7 86.1 62.8 81.9 83.1 83.1 85.3 86.7 86.1 82.8 81.9 83.1 83.1 85.2 84.3 78.2 78.3 77.2 78.3 77.2 78.3 77.2 78.3 77.2 78.4 77.2 78.2 77.2 78.2 77.9 76.9 77.9 76.9 78.4 77.2 78.2 77.2 78.2 77.2 77.4 76.7 77.4 76.7 77.5 77.6 77.9 76.9 77.9 76.0 77.2 78.2 77.2 78.2 77.9 76.9 77.9 76.9 78.4 77.2 78.2 77.2 78.2 77.2 78.2 77.2 78.2 77.9 76.9 77.9 76.0 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77 | 86.5 81.0 85.2 84.3 84.7 67.1 85.3 84.5 87.2 85.3 85.7 86.7 86.7 86.1 62.8 81.9 83.1 83.1 84.3 76.5 81.0 85.2 84.5 84.7 83.7 82.7 84.0 84.7 83.7 82.7 84.0 84.8 83.6 80.4 79.5 80.6 81.9 81.9 76.3 80.1 75.3 79.5 77.3 79.5 77.9 76.6 79.5 78.0 10.6 81.2 81.1 80.0 81.2 81.1 80.9 77.9 76.9 77.9 76.9 77.9 77.0 77.1 77.4 76.7 77.3 79.5 77.9 76.6 79.5 78.1 77.2 78.2 77.2 78.2 77.2 78.2 77.2 78.2 77.2 78.2 77.2 78.2 77.2 78.2 77.2 78.2 77.2 78.2 77.2 77 | 630 | 88.7 | 83.2 | 87.5 | . ق | -41 | 4.68 | 87.7 | 86.6 | 89.5 | • | 87.9 | 4 .68 | 4.68 | 98.6 | 85.1 | 84.3 | 85.4 | 83.7 | 83. |
| 84.3 78.7 82.7 84.9 82.4 84.7 82.9 84.7 83.7 82.7 84.0 84.8 83.6 88.4 79.5 80.8 81.8 81.8 81.8 83.6 88.4 79.5 80.8 81.9 76.3 80.1 79.3 77.9 76.8 77.9 76.8 79.5 77.9 76.8 77.2 78.2 78.1 81.1 81.9 77.9 76.9 76.9 76.4 77.8 77.9 76.8 77.9 76.8 77.2 78.2 77.2 78.2 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.8 77.9 76.8 77.9 76.8 77.2 78.2 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.1 77.0 71.1 74.6 71.9 76.8 77.9 76.1 76.1 76.1 76.2 77.9 76.1 77.0 71.1 76.1 76.2 77.9 76.1 77.0 71.1 77.0 71.1 77.1 77.1 77.1 77 | 84.3 78.7 82.7 81.9 82.4 84.7 82.9 84.7 83.7 82.7 84.0 84.8 83.6 80.4 79.5 80.8 81.9 76.3 80.1 79.3 75.9 76.9 82.1 80.5 79.4 82.1 81.0 80.0 81.2 81.1 80.9 77.9 76.9 76.9 78.4 77.5 77.5 77.5 77.6 77.9 76.8 77.9 76.8 77.2 78.2 77.2 78.2 77.9 76.9 77.9 76.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.9 77.9 76.1 77.0 71.1 74.6 73.9 74.7 77.3 79.5 77.9 76.8 77.9 76.8 77.2 78.2 77.9 76.2 77.9 76.9 77.9 76.9 77.9 76.1 76.1 76.1 76.1 76.1 76.1 76.1 76.2 76.1 76.2 77.9 76.1 76.1 76.1 76.1 76.2 76.1 76.1 76.1 76.1 76.1 76.1 76.1 76.1 | 80 | 86.5 | 81.0 | 85.2 | ÷ | _ | 67.1 | 85.3 | 84.3 | 87.2 | • | 85.3 | 86.7 | 86.7 | | 82.8 | 81.9 | 63.1 | 81.4 | 80. |
| 81.9 76.3 80.1 79.3 79.9 82.1 80.5 77.4 62.1 81.0 80.0 81.2 81.1 80.9 77.9 76.6 77.9 76.6 79.5 77.2 78.2 78.2 77.9 76.6 77.9 76.6 77.2 78.2 77.2 78.2 77.9 77.9 77.6 77.9 77.9 77.9 77.9 77.9 | 81.9 76.3 80.1 79.3 79.9 82.1 80.5 79.4 82.1 81.0 80.0 81.2 81.1 80.9 77.9 76.9 76.9 78.4 77.5 77.2 78.2 77.4 76.7 77.4 76.7 77.9 76.6 79.5 76.3 77.2 78.2 78.1 76.2 77.9 76.6 77.9 76.6 77.2 78.2 77.2 78.2 77.2 77.2 78.2 77.2 77 | 1000 | 84.3 | 78.7 | 82.7 | 81.9 | 82.4 | 84.7 | 82.9 | 81.9 | 84.7 | 83.7 | 82.7 | | 84.8 | 83.6 | | 79.5 | • | | 78. |
| 79.5 73.7 77.4 76.7 77.3 79.5 77.9 76.6 79.5 78.3 77.2 78.2 78.1 78.2 75.2 74.6 73.5 75.6 73.5 77.6 75.1 77.2 78.5 77.5 77.5 77.6 75.6 73.5 77.5 77.5 77.5 77.5 77.5 77.5 77.5 | 79.5 73.7 77.4 76.7 77.3 79.5 77.9 76.6 79.5 78.3 77.2 78.2 78.1 78.2 75.2 74.6 73.5 75.6 73.5 77.6 77.1 77.1 77.1 77.2 78.5 77.6 77.5 77.6 77.5 77.6 77.2 78.2 77.6 77.5 77.6 77.6 77.5 77.6 77.5 77.6 77.7 77.2 77.5 77.5 77.6 77.7 77.7 77.7 77.7 77.7 | 1250 | 61.9 | 76.3 | 80.1 | ð | 6 % 2 | 82.1 | 80.5 | 79.4 | 82.1 | 81.0 | 80.0 | | 81.1 | 60.9 | | 6.92 | | | 76. |
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| 48.6 42.4 47.0 46.7 48.4 58.2 48.8 47.7 50.3 48.5 47.4 47.5 47.1 47.8 46.1 45.0 47.1 45.1 45.1 45.1 45.2 41.4 45.3 38.1 41.7 41.6 43.5 45.1 43.5 42.4 45.1 43.2 42.3 42.4 42.1 43.0 41.3 48.1 42.2 41.5 39.6 33.5 35.8 36.0 38.0 39.5 37.6 36.5 39.3 37.4 36.7 36.8 36.6 37.7 36.0 34.8 36.9 35.3 34.6 29.6 38.0 32.1 33.3 31.1 38.0 32.9 31.0 30.4 30.7 30.6 31.9 30.1 29.1 31.0 38.2 29.1 23.4 23.2 23.6 25.6 25.6 25.5 24.0 22.8 25.8 24.0 23.5 23.9 24.1 25.5 23.9 23.1 24.7 23. | 48.6 42.4 47.0 46.7 48.4 50.2 46.8 47.7 50.3 48.5 47.4 47.5 47.1 47.6 46.1 45.0 47.1 45.1 45.0 46.3 46.1 45.0 47.1 45.1 45.3 36.1 41.7 41.6 43.5 45.1 43.5 42.4 45.1 43.2 42.3 42.4 42.1 43.0 41.3 40.1 42.2 41.3 39.6 33.5 35.8 35.0 38.0 39.5 37.6 36.5 36.5 39.3 37.4 36.7 36.8 36.6 37.7 36.0 34.8 36.9 35.9 35.0 34.6 20.6 20.0 32.1 33.3 31.1 30.0 32.9 31.0 30.4 30.4 30.6 31.9 30.1 29.1 31.0 30.1 29.1 23.4 23.5 23.6 25.6 25.6 26.5 24.0 22.8 25.8 26.0 23.5 23.9 24.1 25.5 23.9 23.1 24.7 23.5 | 9000 | | 4 6•6 | | # | 52.9 | 54.8 | 53.5 | 52.5 | 54.9 | 53.2 | 52.0 | 52.1 | 51.7 | | | +8. | 9 | | 6 |
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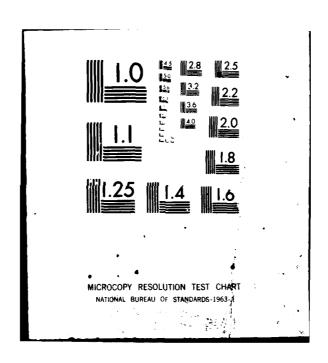
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| | S | 70 AN | 69 | 72 | 99 | 99 | 69 | 63 | • | 62 | 99 | 62 | 63 | 65 | 63 | 63 | 1 9 | 99 | 63 | 9 | 62 | 63 | 9 | 61 | 53 | 20 | 0 |
| a | | 9 | 29 | 73 | 29 | 99 | 70 | 65 | 63 | 61 | 63 | 61 | 62 | 63 | 62 | 9 | 62 | 99 | 29 | 61 | 63 | 63 | 61 | 61 | y T | | 6 |
| il (08) | ONI POWER (5 E ENGINE | 50 | 88 | 25 | 29 | 99 | 69 | 49 | †9 | 63 | 49 | 61 | 6 2 | 6 2 | 62 | 99 | 63 | 9 | 61 | 23 | 6 2 | 63 | 61 | 6 2 | 56 | 55 | 6 |
| E LEVEL | NGL | 64 | 69 | 78 | 69 | 29 | 12 | 9 | 3 | 62 | 63 | 63 | 9 | 9 | 29 | 7.7 | 68 | 68 | 49 | 62 | 9 | 65 | 63 | 63 | 24 | 21 | 6 |
| ES SURE T | OPER | 30 | 89 | 75 | 29 | 65 | 20 | 65 | † 9 | 29 | 29 | 63 | † | 63 | 63 | 68 | 99 | 49 | 61 | 25 | 28 | 53 | 24 | 53 | 46 | F 3 | • |
| O PR | | 20 | 67 | 72 | 7.0 | 29 | 69 | 6 5 | 65 | 6 2 | 99 | † 9 | 1 9 | 62 | 62 | 29 | 68 | 99 | 62 | 9 | 49 | 62 | 20 | 53 | 48 | \$ | 4 |
| SOUND BAND 250 | · 🗸 | 9 | 65 | 29 | 69 | \$ | 65 | 61 | 3 | 49 | 65 | 61 | 61 | 61 | 9 | 61 | 63 | 63 | 61 | 20 | 62 | 62 | | 24 | 84 | ţ | 77 |
| NORMALIZED 1/3 OCTAVE DISTANCE = | SUBJE | 9 | 68 | 11 | 29 | 69 | 99 | 65 | 79 | 63 | 68 | † 9 | 63 | 99 | † 9 | 68 | 68 | † 9 | 63 | 61 | 1 9 | 63 | | 37 | 64 | * | 4 |
| NORMALIZ 1/3 OCTA DISTANCE | SOURCE/SUBJECT: 6 NOISE SUPPRES 24-17 ND RUNUP | Z C | | | | | | | | | | | | | | | | | | | | | | | | | |
| 168 | | BAND CENTER FREG (HZ) | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 312 | 6 00 | 200 | 630 | 800 | 1001 | 1250 | 1600 | 2386 | 2500 | 3150 | 400¢ | 2000 | 2 | ē | 0 00 0 | OVED AL |
| TABLE | 9 (| 4 L | | | | | | | | | | | | | | | . • | | | | | • | | _ | - | ∓ | ć |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| | | 30.406 | רב אבר ירי | 8081 | | | | | | | | | | |) IDENTI | DENTIFICATIONS OMEGA 8.2 | #NOI | |
|-----|---|--------|------------|--------------------------|---|--|-------------------------|-------------|----------------|---|----------------|------------------------|---------------------------------------|------|---------------------------------|-----------------------------|-----------------------|--------------|
| ~ (| FUNCTION OF | N OF A | ן ני | AND DISTANCE | | FROM SC | SOURCE | | | | | | | |) TEST | ~ 6 | 8-601 | |
| | SE SOURCE/SUBJECT! F-106 NOISE SUPPRESSOR AF 32A-17 GROUND RUNUP | SSOR | | OPERAT ID SI GR | RATIONS IDLE PON SINGLE E GROUND R | ATIONE IDLE POMER (59% SINGLE ENGINE GROUND RUNUP (SI | 9% RPM) (SUPPRESSED) | :SSEO) | 2 5 | METEOROLOGY: TEMP BAR PRES REL HUMI DELTA N = | PRESS HUMID | = 59 =29,92 = 73 | N N N N N N N N N N N N N N N N N N N | | AIRCRAF) OPERATI PROFILE 28 NOV | | CODE CODE RSION | 778 36113 |
| • | 107 | 20 | 30 | 9 | 50 | 9 | 7.6 | ANGLE 85 | . 0. | DESREES) | 110 | 120 | 130 | 140 | 156 | 160 | 170 | 180 |
| | 88.7 | 9.49 | 88.7 | 92.8 | 7.06 | 90.8 | 44.7 | 34.2 | 87.4 | | 92.4 | 90.4 | 91.3 | 92.0 | 90.0 | 86.8 | 85.8 | 79.7 |
| | 86.4 | 88.6 | 86.5 | 90.4 | 88.4 | 88.6 | 88.4 | 91.9 | 85.1 | 92,3 | 90.0 | 88.0 | 89.6 | 89.8 | 87.8 | 84.6 | 83.5 | 77.4 |
| | 84.0 | 86.3 | 84.2 | 88.0 | 86.0 | 86.2 | 86.0 | 89.5 | 85.8 | | 87.6 | 85.7 | 87.4 | 87.5 | 85.5 | 82,3 | 81.2 | 75.1 |
| 6 | 81.6 | 63.8 | 81.9 | 85.5 | 83.4 | 83.9 | 83.5 | 86.9 | 86.4 | | 85.1 | 83.2 | 85.3 | 85.2 | 83.1 | 6*62 | 78.9 | 72.8 |
| | 79.1 | 81.3 | 79.5 | 82.9 | 80.8 | 81.4 | 80.9 | 84.3 | 76.0 | | 82.4 | 80.7 | 82.6 | 82.8 | 80.7 | 77.5 | 76.4 | 70.3 |
| | 76.4 | 78.7 | 77.0 | 80,3 | 78.0 | 78.8 | 78.1 | 81,5 | 15.4 | | 79.6 | 78.1 | 80.0 | 80.3 | 78.2 | 74.9 | 73.8 | 67.8 |
| 6 | 73.6 | 75.9 | 74.3 | 77.6 | 75.0 | 76.1 | 75.3 | 78.6 | 72.8 | | 76.6 | 75.4 | 77.4 | 77.7 | 75.6 | 72.2 | 71.2 | 65.1 |
| | 70.6 | 73.0 | 71.6 | 74.8 | 71.8 | 73.2 | 72.4 | 75.5 | 69.9 | 75.8 | 73.6 | 72.5 | 7.4.7 | 75.0 | 72.8 | 69.3 | 68.3 | 62.3 |
| ~ | 67.2 | 69.1 | 68,6 | 71.8 | 68.8 | 70.1 | 69.4 | 72.2 | 66.8 | 72.4 | 70.5 | 4.69 | 7.1.7 | 72.1 | 69.8 | 66.2 | 65.2 | 59.3 |
| | 63.8 | 66.4 | 65.4 | 68.5 | 65.4 | 66.7 | 99 | 68.5 | 63.5 | 68.7 | 67.0 | 66.0 | 68.4 | 69.0 | 9.99 | 62.8 | 61.9 | 55.9 |
| | 64.2 | 62.8 | 61.9 | 65.0 | 61.7 | 63.0 | 62,5 | 6 * * 9 | 64.1 | 9 • 4 9 | 63.4 | 62.4 | 6.49 | 65.6 | 63.1 | 59.5 | 58.3 | 52.2 |
| | 56.1 | 59.0 | 58.1 | 61.0 | 2.19 | 58.9 | 58.5 | 60.6 | 56.4 | 60.5 | 59. 4 | 58.3 | 61.0 | 61.9 | 59.5 | 55.0 | 54.2 | 47.8 |
| | 51.4 | 54.4 | 53,9 | 26.7 | 53.0 | 54.5 | 53.9 | 56,3 | 51.9 | 55.9 | 54.8 | 53.6 | 56.6 | 57.8 | 54.8 | 50.5 | 9.64 | 43.4 |
| | 45.6 | 49.1 | 48.8 | 51,6 | 47.2 | 48.6 | 48.5 | 51,1 | 46.7 | 50.7 | 49.6 | 48.4 | 51.7 | m | 50.5 | 45.0 | 43.6 | 37.6 |
| m | 39.5 | 43.6 | 43.4 | 46, 3 | 41.3 | 42.1 | 42,3 | 44.8 | 41.7 | 44.5 | 43,3 | 42.1 | 46.3 | | 44.5 | 38,3 | 37.2 | 31.0 |
| | 32.2 | 37.4 | 37.3 | 40.5 | 35.1 | 34.6 | 35.6 | 38.0 | 35.5 | 37.5 | 36.2 | 35,3 | 39.1 | _ | 37.2 | 30.6 | 29.9 | 22.9 |
| 2 | 22.1 | 30.5 | 31.0 | 34.6 | 27.5 | 26.0 | 29.1 | 31.9 | 28.9 | 30.1 | 27.2 | 27.4 | 31.0 | | 29.5 | 21.6 | 21.2 | 14.7 |
| m | 9.7 | 20.9 | 21.9 | | 17.3 | 14.7 | 19.0 | | 19.1 | 18,8 | 16.7 | 9.6 | 18.1 | 27.5 | 15.8 | 12,5 | 7.3 | 9•9 |
| _ | | 6•9 | 12.7 | 14.9 | 7.1 | 3,3 | 7.0 | 12.8 | 9,3 | 7.6 | | | 2.5 | 15,3 | 2.3 | 3.5 | | |
| 4 | | | 3,6 | | | | | | | | | | | 3.1 | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

White Island

AD-A883 701 AIR FORCE AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATT--ETC F/G 1/2 COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO-ETC(U) DEC 79 R A LE AMPLITER 73-110-VOL-7 UNCLASSIFIED 3∘3 40 4083701 END 6-80 DTIC



| | AS A F | A FUNCTION | 4 | w | AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | |) OMEGA | | 77-778-861 | |
|--------------------|---|---------------|--------|------|--|-----------------------------------|--|-------------------------|-------------|-------------|--|----------------|------------------------|------|-------|---|------|-----------------------|--------------|
| NOISE SO | E SOURCE/SUBJECT: F-106 NOISE SUPPR AF 328-17 GROUND RUNUP | BJECT & SUPPR | E SSOR | | OPERATIONS IDLE P SINGLE GROUND | TIONS DLE PO INGLE ROUND | RATION! TOLE POWER (59% SINGLE ENGINE GROUND RUNUP (SU | 9% RPH) (SUPPRESSED) |) ESSED) | F 0 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N # | PRESS HUNID | 29.92 29.92 1008 | N K | | AIRCRAF OPERATI PROFILE 26 NOV PAGE E | 0 | CODE CODE RSION | 778 00113 |
| DISTANCE (FEET) | | 10 | 20 | 36 | 3 | 50 | 99 | 10 | ANGLE | E (DEGREES) | 4EES) | 110 | 120 | 130 | 140 | 150 | 166 | 170 | 3 |
| 900 | 8,40 | 88.7 | 9 | | 9 | | 9 | 4,10 | 06.2 | A7.9 | 9K. 7 | 0,70 | - | 0.20 | 0,40 | 9 | AAA | 86.5 | 81.3 |
| 9 E | 89.5 | 86.4 | 89.6 | | 91.6 | 89.1 | 89.7 | 0 0 0 0 | 92.0 | 85.6 | 93.4 | 90.00 | 88.7 | 96.7 | 4.1 | 87.8 | 86.0 | 86.4 | 2 |
| 315 | 87.1 | 9,49 | 87.3 | 85.1 | 9.5 | 86.7 | 67.3 | 86.8 | 90.5 | 83.3 | 90.9 | 68.2 | 86.3 | 88.4 | 69.5 | 85.5 | 63.7 | 82.8 | 76.7 |
| 004 | 84.7 | 81.6 | 6 4.9 | તં | 86.7 | 84.2 | 6.49 | 84.3 | 87.9 | 81.0 | 99.4 | 85.7 | 83.9 | 86.1 | 87.2 | 83.1 | 81.4 | 79.6 | 74.3 |
| 200 | 82.2 | 79.1 | 82.3 | ė | 8 4.0 1 | 81.5 | 82.5 | 81.7 | 85, 3 | 78.5 | 85.7 | 83.0 | 61.3 | 83.7 | 84.8 | 99.7 | 76.9 | 77.1 | 77 |
| 630 | 79.6 | 76.4 | 79.7 | 77.8 | 81.4 | 78.7 | 79.9 | 78.9 | 82.5 | 76.0 | 82.9 | 80.2 | 7.8.7 | 81.1 | 82.3 | 78.2 | 76.4 | 74.6 | 69.4 |
| 9 | 76.8 | 73.6 | 76.9 | ķ | 78.7 | 75.7 | 77.2 | 76.1 | 79.5 | 73.3 | 79.9 | 77.2 | 76.0 | 78.5 | 79.7 | 75.6 | 73.7 | 71.9 | 99 |
| 1047 | 73.9 | 73.6 | 74.0 | | 75.9 | 72.6 | 74.3 | 73.2 | 76.5 | 70.5 | 76.8 | 74.2 | 73.2 | 75.6 | 77.0 | 72.8 | 70.8 | 69.1 | 63.6 |
| 1256 | 70.6 | 67.2 | 70.7 | 6 | 72.9 | 69.5 | 71.2 | 70.2 | 73.2 | 67.3 | 73.4 | 71.1 | 71.1 | 72.7 | 74.1 | 69.0 | 67.7 | 66.1 | 99 |
| 1600 | 67.0 | 63.8 | 67.4 | 66.2 | 69. 7 | 66.1 | 67.8 | 66.8 | 69.5 | 64.1 | 69.7 | 67.7 | 66.7 | 69.5 | 70.9 | 9 • 9 9 | 64.3 | 62.7 | 57.4 |
| 2000 | 63.5 | 60.2 | 63.6 | તં | 66.1 | 62.5 | 64.1 | 63,3 | 62.8 | 60.7 | 65.7 | 64.0 | 63.0 | 99 | 67.6 | 63,1 | 9.09 | 59.1 | 53. |
| 2500 | 59.7 | 56.1 | 60.0 | ð | 62.2 | 58.4 | 60.0 | 59.3 | 61.9 | 56.9 | 61.6 | 60.0 | 56.9 | 62.1 | 63.9 | 59.5 | 56.4 | 55.0 | 1.64 |
| 3150 | 55.4 | 51.4 | 55,5 | | | 53.7 | 55.3 | 24.7 | 57.2 | 52.5 | 56.9 | 55.4 | 54.3 | 57.7 | 59.8 | 54.8 | 51.6 | 58.3 | 1 |
| 4004 | 50.3 | 45.6 | 50. | å | | 47.7 | 40.4 | 49.1 | 51.9 | 47.2 | 51.6 | 50.1 | 40.9 | 52.6 | 54.9 | 51.5 | 16.1 | 44.2 | 38.9 |
| 5000 | 44.8 | 39.5 | 44.2 | m | 47.0 | 41.7 | 42.7 | 42.8 | 45.4 | 42.0 | 45.1 | 43.7 | 42.5 | 47.0 | 49.6 | 44.5 | 39.1 | 37.6 | 32. |
| 6300 | 38.8 | 35.2 | 37.8 | 2 | 6.0 | 35.4 | 35.0 | 35.9 | 36,3 | 35.7 | 37.9 | 36.5 | 35.6 | 39.5 | 43.5 | 37.2 | 31.2 | 30.2 | 23. |
| 9009 | 32.4 | 22.1 | 30.7 | ÷ | 34.0 | 27.7 | 26.3 | 29.3 | 32.0 | 29.0 | 30.3 | 27.3 | 27.5 | 31.2 | 36.4 | 29.5 | 21.8 | 21.4 | 15. |
| 16600 | 23,3 | 9.7 | 20.9 | 4 | ~ | 17.3 | 14.7 | 19.0 | 22.8 | 19.1 | 18.8 | | 9.6 | 18.1 | 27.5 | 15.8 | 12.5 | 7.3 | 6.6 |
| 12500 | 11.8 | | 6.9 | 12.7 | 6 4 1 | 7.1 | 200 | 7.0 | 12.8 | 9.3 | 7.6 | 6.2 | | 5.5 | 15.3 | 2.3 | 3.5 | | |
| 16808 | * | | | m | å | | | • | 2.8 | | | | | | TO PO | • | | | |
| 20000 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| (NOISE SOURCE/SUBJECT! F-106 NOISE SUPPRE AF 32A-17 GROUND RUNUP | | | P | ANGLE A | AND DIS | TANCE | FROM S | SOURCE | ļ | | | | | | | OMEGA TEST | OMEGA 8.2 TEST 77-778-00 | 108. 8-001 | |
|--|------------------------------------|--|-------|--------------------------|--------------|--|--|-------------------------|-------------|------|---|----------------|----------------------------|---|--------|--|-----------------------------|--|--------------|
| | RCE/SU NOI SE A-17 D RUNU | SOURCE/SUBJECT: 1.06 NOISE SUPPR: 32A-17 ROUND RUNUP | SSOR | | OPERA S I | RATION: IDLE PO SINGLE GROUND | POWER (59%). E ENGINE ID RUNUP (SU | 9% RPM) (SUPPRESSED) |) ESSED) | * 6 | METEOROLOGY: TEMP BAR PRES REL HUNI DELTA N = | | = 59,92 = 29,92 = 70 | 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | AIRCRAFI OPERATI PROFILE PAGE F | | NO NO NO NO NO NO NO NO NO NO NO NO NO N | 778 00113 |
| DISTANCE (FEET) | - | 70 | 77 | ag M | 3, | 50 | 9 | 0,2 | ANGLE | 0.6 | EGREES) 100 | 110 | 120 | 130 | 140 | 150 | 160 | 178 | 180 |
| 200 | 77.8 | 74.6 | 77.3 | 76.6 | 79.6 | 76.3 | 76.8 | 76.7 | 79.6 | 75.1 | 79.9 | 78.0 | 76.8 | 79.2 | 81.3 | 78.0 | | 73.1 | 66.9 |
| 315 | 73.4 | 70.2 | 73.0 | 72. | 'n | 71.8 | 72.3 | 72.2 | 75.1 | 70.9 | 75.3 | 73.4 | 72.4 | 74.8 | 77.0 | | | 68.8 | 62.7 |
| 0 c | 71.2 | 67.9 | 78.8 | 2.4 | 73.0 | 69.5 | 72.0 | 70.0 | 72,7 | 66.7 | 72.9 | 71.1 | 7401 | 72.6 | 74.8 | 71.4 | ~ 4 | 66.5 | 50.5 |
| 9 20 30 | 66.7 | 63.2 | 66.2 | 65 | | 64.7 | 65.2 | 65.2 | 67.8 | 64.3 | 6.29 | 66.2 | 65.3 | 67.9 | 70.2 | 66.8 | | 61.9 | 56.1 |
| 900 | 64.3 | 2.09 | 63.8 | 63. | 65.9 | 62.2 | 62.7 | 62.8 | 65, 3 | 61.9 | 65.3 | 63.6 | 62.8 | 65.4 | 6.79 | 9.49 | 9 | 59.5 | 53.8 |
| 1000 | 61.8 | 58.2 | 61.4 | | 63.4 | 59.7 | 60.1 | 60.2 | 62, 6 | 59.6 | 62.5 | 60.0 | 60.2 | 62.8 | 4.69 | 61.8 | - | 56.9 | 51.4 |
| 1250 | 59.5 | 55.5 | 58.7 | | 64.8 | 57.0 | 57.3 | 57.6 | | 57.0 | 29.6 | 58.1 | 57.5 | 60.1 | 62.8 | 29.5 | | 54.3 | 48.9 |
| 1600 | 56.6 | 25.7 | 56.0 | | 50° | 54.5 | 7. | 7. | | 4 P | 56.6 | 55.2 | 54.7 | 57.3 | 60.1 | 56.4 | . م | 51.5 | 66.3 |
| 2500 | 50.00 | 46.6 | 5.00 | | 52.4 | £ 8 3 | | 40.0 | 50.0 | 7.84 | 50.1 | 6 9 9 9 | 46.5 | 51.1 | 5 F. S | 50.2 | | | £0.4 |
| 3150 | 47.6 | 43.2 | 40.0 | | 49.2 | 45.0 | 6.44 | 45.5 | 47.1 | 45.6 | | 42.4 | 45.0 | 47.5 | 51.0 | 46.8 | • | 42.2 | 37.7 |
| 0007 | 44.1 | 39.5 | 43.2 | | 45.7 | 41.5 | 41.1 | 41.9 | | 42.1 | | 41.5 | 41.2 | 43.7 | 4.2.4 | 43.0 | _ | 38.6 | 34.2 |
| 2000 | 40. | 35.4 | 36.5 | | 41.0 | 37.5 | 36.9 | 37.8 | 96° | 38.2 | | 37.3 | 37.0 | 39.5 | 43.5 | 38.9 | . | 34.6 | 30.2 |
| 9000 | 31.6 | 26.5 | 30.0 | 4 6 6 6 8 6 8 6 | 33.2 | 28.9 | 27.9 | 29.1 | 30.2 | 29.8 | 29.3 | 32. b 28. 1 | 32.4 | 29.7 | 34.2 | 24.6 | 25.2 | 25.5 | 22.0 |
| | | ; | | | | ; | , | ; | | | | | | ; ; | | | . , | | . ! |
| 13886 | 26.9 | 21.0 | 20.62 | 0.92 | 0 0 0 0 | 2.4.2 | 23.2 | 24.5 | | 22° | 24.0 | 23.5 | 22.5 | 24.2 | 28.6 | 23.7 | 19.6 | \$. 0 7 | 17.6 |
| 16000 | 16.1 | 11.4 | 14.8 | | | 13.6 | 12.8 | 16.3 | 15,9 | 4 6 | | 12.6 | 11.3 | 11.7 | 15.1 | 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - | | 8.7 | 8 |
| 20030 | 10.0 | 5.0 | 8 | | | 7:7 | 7.2 | 8.5 | 10.4 | 0 | : 2 | 9 | 5.4 | 5.1 | | 9.6 | ; | 2.3 | 2 |
| 25000 | 3.6 | | 2.9 | _ | 4.4 | 1.7 | 1.3 | 2.5 | • | 2.8 | 1.6 | • | | | | | | | |

| (TABLE: | TONE-C | TONE-CORRECTED, A-WEI | ED, A-NE | WE IGHT | | | | | (DBA) | | | | | | | DENTI | DENTIFICATION | IONE | |
|--------------------|--|-----------------------|----------|-------------------|---------------------------------------|---------------|-----------------------------------|--------------|---------|----------|-----------------------------------|------------------------|------------------------|------|----------------|-----------------------------|---------------|--------|---------|
| NOTIONAL VICTORIAN | - V V | S A TONCILON OF ANGE | | . : | STO ONE | DISTANCE | ביים הטאר | SUURCE | | | | | | | | O LEST | 77-778-001 | 100-9 | |
| (NOISE SO | E SOURCE/SUBJECT: F-106 NOISE SUPPR | BJECT & SUPPR | SSO | | OPERATION IDLE | TION! | 4ER (59 | 9X RPH) | - | E | TEOROL | ,067 t | 59 | 1 | | AIRCRAFT OPERATIO | _ | CODE 0 | 776) |
| C GROU | AF 32A-17 Ground Runup | ۵ | | | ผฉั | INGLE ROUND ! | SINGLE ENGINE GROUND RUNUP (SU | (SUPPRESSED) | :SSE0) | 000 | BAR PRES REL HUMI JELTA N = | PRESS HUMIO = 0. | =29.92 = 70 0 08 | N HG | | PROFILE 28 NOV PAGE (| ", 2.43 | RSION | < ~ ~ ~ |
| (DISTANCE (FEET) | 0 | 707 | 80 | ਜ | 3 | 50 | 89 | 2 | ANGLE | | DEGREES) | 110 | 120 | 130 | 146 | 150 | 168 | 170 | 180 |
| 200 | 78.6 | 74.6 | 78.4 | | 80.8 | 77.0 | 77.9 | 77.5 | 80.6 | 75.7 | 81.0 | 78.6 | 77.4 | 80.3 | 83.2 | | 75.7 | | 68.5) |
| 250 | 76.5 | 72.4 | 76.2 | • | 8 | 74.8 | 75.7 | 75.3 | 78.5 | 73.6 | | | 75.2 | | - | 6 1 | 10 | | 66.4) |
| 004 | 72.1 | 67.9 | 71.0 | 7 10 10 | * * * * * * * * * * * * * * * * * * * | 70.2 | 7:5 | 70.6 | 73.7 | 69°3 | 70.4 | 7:1 | 73.8 | 73.7 | | 73.7 | 71.5 | 67.5 | 64.3) |
| 200 | 69.8 | 65.6 | 69.6 | | 71.0 | 67.9 | 68.7 | 68.4 | 71.3 | 67.1 | 71.5 | | 68.4 | | , IV | · ~ | | | 59.9 |
| 630 | 67.5 | 63.2 | 67.2 | _ | 8 | 65.4 | 66.3 | | 68.8 | 64.8 | 9.69 | | 99 | | ~ | | | | 57.6 |
| 909 | 65.1 | 60.7 | 64.9 | 64. 2 | 67.1 | 63.0 | 63.8 | 63.6 | 66.3 | 62.5 | 66.3 | 64.2 | 63.5 | | | | • | | 55.3 |
| 1000 | 62.7 | 58.2 | 62.4 | _ | 64.6 | 4.09 | 61.2 | 61.0 | 63.6 | 60.1 | | 61.5 | 60.9 | 63.9 | 67.4 | • | 59.5 | 57.7 | 52.9 |
| 1250 | 60.1 | 55.5 | 59.8 | | ~ | 57.7 | 58.4 | | 60.6 | 57.6 | | | ~ | ~ | • | ~ | • | | 50.4) |
| 1566 | 57.4 | 1.25 | 57.1 | ν κ φ γ ο ο | 8. | 54.9 | 55.6 | 55.6 | 57.9 | | 57.6 54.6 | 55.00 10.00 | 55.3 | 58.4 | 62.1 | 56.4 | 54.0 | 52.3 | 47.8 |
| 2500 | 51.7 | 46.6 | 51.1 | _ | 5 % | 6.6 | 4.64 | 49.7 | 51.6 | 169 | | . 6 | | • 6 | , _~ | N 1 | | | 62.3) |
| 3750 | 46.5 | 43.2 | 47.8 | | ė | 45.8 | 46.0 | 46.3 | 49.4 | 46.1 | | | ما | | - | • | - | | 39.2 |
| 007 | 8 9 9 | 39.5 | 4.0 | - | 3 | 42.0 | 42.0 | 45.5 | 44.1 | 42.5 | | | _ | | _ | | 100 | | 35.4) |
| | 7.04 | 35.4 | 5.0° | 39.9 | 42.5 | 37.9 | 37.6 | 38.3 | 39.6 | 38.5 | | | 37.4 | ~ . | ۰ م | . | | | 31.1 |
| 9000 | 31.7 | 26.5 | 30.7 | 31.0 | 4 6 6 6 7 | 29.0 | 28.1 | 29.3 | 7 0 0 N | 59.9 | 29.5 | 28.2 | 27.8 | 30.0 | | 4 N | | | 22.3) |
| - | ; | | 1 | | | | | | | | | | | | | | | | |
| | 56.9 | 21.8 | 25.6 | | 2 ° | 24.2 | 23.5 | 24.5 | 25.8 | 25.2 | | 23.2 | 22.5 | 24.2 | 20.6 | 23.7 | 19.6 | 20.4 | 17.8 |
| 15000 | 16.4 | 1 | | | | 1 2 7 | 700 | 7 | 9 9 9 9 | ? • • | 7 7 6 | , o e | | | , | | , · | | 73.1 |
| 26699 | 7 | 2 | 6.9 | | 10.6 | 7.7 | 7.2 | 9 | 10.4 | | 7.6 | 7 F 9 | 2.5 | | 4 14 | | Þ | | 4.0 |
| 25000 | 3.6 | , | 2.9 | | 3 | 1.7 | 1.3 | 2,5 | | 2.8 | 1:0 | • | | | , | } | | | • |
| | | | | | | | | | | | | | | | | | | | ^ |

| OIS | DISTANCE = | 250 | FEET | • | | | | | | | | | | | | OMEGA TEST 7 | | 78-001 | |
|---------------------------|-----------------|------------|----------|-----------|-------------------|------------|----------|------------------|------------|------------------|------------------------|------------|----------------------|------------|------|---------------------------------|-----------------------|------------|------------|
| NOISE SOURCE/S | SUBJEC Suppa | T : | | 9 PE | RATIONS 52 RPH | | | | | AETE | OROLO AP | GY1 | 98 | | | RUN 02 Aircraft Operation | D2 AFT C TION C | 00E | 776 |
| AF 32A-17 GROUND RUNUP | | | | SRS | NGC E | NENGEN | | SUPPRESSED) | 60 2 | BA RE OELT | SAR PRESS REL HUMID | 11 11 0 | 29.92 78 70 08 | N HG | | PROFILE 28 NOV 7 PAGE C2 | , 3 6 7. | NOIS | |
| BAND CENTER FREG (HZ) | 0 | 9 | 80 | 30 | 3 | 50 | 99 | ANGL 70 8 | GLE (| 96 | ES) | 110 | 120 | 130 | 1 40 | 150 | 160 | 170 | 190 |
| 90 | 81 | 82 | 81 | 8 | 77 | 72 | | 73 | 73 | 77 | 71 | 92 | 7.7 | 75 | 7.8 | 78 | 79 | 6 | 60 |
| | 2 | 29 | 78 | 75 | 2 | 8 2 | 78 | 78 | 92 | 22 | * | 2 | 8 | 62 | | 92 | 75 | 75 | 12 |
| 00 | 75 | | 74 | 72 | 75 | 75 | 75 | 92 | 73 | 73 | 1. | 23 | 72 | 72 | 7.1 | 7 | 14 | * | 75 |
| 100 | * 2 | 92 | 4 | 72 | 72 | 73 | 7.4 | 42 | 7.1 | 7 | 7.1 | Z | 72 | 1,2 | 72 | 7 | 70 | 7.4 | 75 |
| 125 | 62 | 77 | 9. | 92 | 28 | 8 | 77 | 75 | 9 : | 22 | 92 | 22 | 22 | 16 | 72 | 2 | 72 | 72 | 73 |
| 10c / | \$ 2 | 7.5 | ± 5 | 22 | <u> </u> | 22 | : | 6 e: 9 | 25 | 7.7 | 7 7 | 2 2 | 1 9 | 2 5 | 7 3 | 13 | 72 | 9 4 0 4 | 7 |
| 250 | 73 | 12 | * * | 7. | 2.2 | 1.2 | : 12 | 1. | 9 . | 69 | 2. | 69 | 69 | 9 | 9 | 3 | 3 | 65 | 3 |
| 315 | * 2 | 72 | 75 | 92 | 73 | * | 73 | 72 | 72 | 72 | 70 | 11 | 11 | 29 | 99 | \$ | 69 | 63 | 63 |
| 904 | 75 | 1 | 92 | 22 | 23 | 72 | 73 | 73 | 12 | 42 | 72 | 72 | 72 | 69 | 29 | 9 | 65 | 79 | 29 |
| 566 | 7.8 | 72 | 22 | 9.2 | :2 | 23 | 73 | 73 | <u>.</u> 2 | 77 | ۳ ۱ | 7. | 22 | 7; | 69 | 62 | \$ (| 29 | 3 |
| 3 C C | 2.2 | 2 2 | 6 K | . r | 2 5 | 2 K | 2 Z | 2 2 | ± 4 | C | 7.2 | 2 K | 2 8 | 5 2 | 2 % | 8 6 | 9 6 | * 6 | 5 6 |
| 1006 | 73 | . Z | . K | : 2 | 2:2 | 2.5 | · * | * * | 2. | 75 | ! * | 4. | 26 | 11 | 2. | 89 | 9 | 69 | 49 |
| 1250 | 72 | 69 | 72 | 72 | 2 | 72 | 72 | 72 | 73 | 22 | 11 | 74 | 79 | 8 | 75 | 69 | 69 | 69 | 63 |
| 1600 | * | 7 | 7.4 | 73 | 22 | 7.4 | 4. | 73 | 76 | 11 | 90 | 78 | 9 | 81 | 9/ | 20 | 72 | 92 | 9 |
| 2002 | 72 | 2 : | 77 | 1.5 | 75 | 76 | | <u>.</u> | 2: | 92 | 5 : | 8 | 61 | 90 | 2 × | 72 | 73 | 2 | 62 |
| 3150 | 7.7 | 2.2 | 72 | 7 12 | 1.2 | 2 8 | 2 9 | 12 | 9 7 | 8 0 | 9 6 | 6.2 | . 82 | 2 0 | - M | 9 G | 9 | 67 | 9 9 |
| 4000 | 73 | 72 | 75 | 73 | 79 | 00 | 7.8 | 52 | 94 | 83 | 82 | 9 | 79 | 92 | 75 | 73 | 69 | 99 | 63 |
| 9 | 29 | 6 2 | 99 | 67 | * | 72 | 10 | 68 | 11 | 92 | 15 | * | 72 | 69 | 69 | 99 | 49 | 9 5 | 26 |
| 30 | 49 | 19 | † | 63 | 7 | 70 | | 65 | 7,4 | 73 | 73 | 7 | 69 | 29 | 65 | 63 | 61 | 29 | 3 |
| 9000 | 63 | 28 | 20 | 53 | 29 | 9 | | 63 | 75 | 69 | 69 | 9 | 65 | 63 | 20 | 23 | 20 | 25 | £ 3 |
| 10000 | 58 | 26 | 25 | 28 | 99 | 6 9 | | 63 | 7 | 99 | 99 | 6 2 | 62 | 9 | 21 | 9 | 2 | 21 | 4 |
| | | | | | | | | | | | | | | | | | | | |

| | AS A | UNCTIO | FUNCTION OF ANGLE | , w | AND DISTANCE | STANCE | FROM S | SOURCE | | | | | | | | OMEGA | ONEGA 8.2 TEST 77-778-0 | 8-031 | |
|-----------------------------|-----------------------|---------------------------|-------------------|-------|---------------|--|-----------------|--------|--------------|--------|--|----------------|---------------|-----------------|--------|---------------------------|---------------------------------|---------------------------|---------------------|
| NOISE S F-1 AF GRO | RCE/S NOIS A-17 | UBJECTS E SUPPRE UP | SUPPRESSOR | | 9 | RATION: 85% RPM SINGLE GROUND | ENGINE RUNUP | (SUPPR | (SUPPRESSED) | | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | =29. =0.08 | 59 F 92 IN H | 9 | AIRCA OPERC D 28 NO | AFT ATION ILE VE D2 79 | 50 DE 50 DE 85 I ON | 776 08116 A |
| OISTANCE ((FEET) | e e | 2 | 50 | 88 | 3 | 50 | 60 | 20 | ANGLE 80 | • | (DEGREES) 90 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 161.0 | 98.9 | - | 100 | 10 1, 1 | 104.4 | 102.6 | 100 | ~ | 106.4 | 135.6 | 104.7 | 104.4 | 102.6 | 100.8 | 98.0 | | 95.6 | 91.5 |
| 250 | 98.7 | 96.6 | 99.1 | 98.4 | 100 | 102.0 | 100.2 | 98.5 | | 10401 | 103.3 | M 1 | 102.1 | 100.4 | 98.5 | 95.6 | 93.6 | 93.6 | 89.1 |
| 612 | 96 | 91.7 | | 9 6 | | 97.0 | 95.3 | e M | * 00 | 401.00 | 2001 98.3 | n . | 97.2 | 95.7 | 4 | 93.2 | | 91.0 | 84.2 |
| 200 | 91.7 | 89.1 | | 91. | 94.2 | 4.46 | 92.7 | 91. | N | 96.5 | 95.7 | | 94.6 | 93.3 | 91.1 | 88.0 | | 86.5 | 81.6 |
| 630 | 89.1 | 86.5 | 69.3 | 88. | 4 | 91.6 | 69.9 | | M | 93.6 | 92.8 | _ | 91.9 | 96.7 | 88.6 | 85.2 | | 83.9 | 79.0 |
| 909 | 86.5 | 83.8 | 86.7 | 92 | 88.4 | 88.6 | 86.9 | 85. | 2 | 96.7 | 89.8 | 89.2 | 89.1 | 88.1 | 65.9 | 82.2 | | 81.2 | 76.3 |
| 10.00 | 83.7 | 81.0 | 83.9 | | 85, 2 | 85.4 | 63.7 | 82.2 | 88.0 | 87.7 | 86.6 | 85.1 | 86.1 | 85.3 | 63.1 | 79.0 | | 78.4 | 73.5 |
| 1250 | 80.7 | 77.9 | 6.9 | 7 9.8 | 81.7 | 81.9 | 80.4 | 79.0 | | 84.4 | 83.0 | 82.9 | 82.9 | 82.4 | 80.1 | 75.8 | 75.8 7 | 75.4 | 70.4 |
| 16 00 | 77.5 | 74.7 | 77.7 | 76 | 78.2 | 76.3 | 76.8 | 75.8 | 80.5 | 86.8 | 79.5 | 79.6 | 79.7 | 79.3 | 76.8 | 72.5 | | 72.2 | 67.1 |
| 2000 | 74.6 | 71.1 | 74.2 | 73 | 74.2 | 74.3 | 73.1 | 72.2 | 76.5 | 76.8 | 75.9 | 76.3 | 76.2 | 75.9 | 73.3 | | | 9.89 | 63.4 |
| 2500 | 70.1 | 67.1 | 70.3 | 69 | 70.0 | 70.0 | 69.1 | 68.3 | 72.0 | 72.4 | 71.8 | 72.1 | 72.4 | 72.2 | 4 • 69 | | | 64.5 | 59.5 |
| 3150 | 65.7 | 62.7 | 9 | • | 6 2° 6 | 65.6 | 64.7 | 63.9 | 67.3 | 67.6 | 67.6 | 67.7 | 68.3 | 68.1 | 65.1 | | | 50.1 | 54.5 |
| 0374 | | 57.7 | 61.1 | 60.1 | 60.0 | 60.6 | 28.7 | 59° C | 62.2 | 62.7 | 65.9 | 62.8 | 63.8 | 63.6 | 60.1 | | 54.8 | 54.9 | 48.5 |
| 2 9 00 | 55.4 | 51.8 | 22. | | 55.6 | 55.1 | 54.4 | 53.9 | 56.8 | 57.4 | 57.7 | 57.3 | 58.6 | 58.5 | 54.5 | 6 9. | | 0.64 | 41.2 |
| 6300 | | 44.7 | | | t 9. 7 | 49.1 | 48.5 | 48.1 | 50° 5 | 51.5 | | 51.0 | 53.0 | | 48.7 | | | 41.8 | 34.5 |
| 9909 | 4.4.6 | 39.4 | 44.9 | | 44.0 | 43.5 | 45.9 | 42.7 | 44.8 | 45.9 | 45.1 | 44.0 | 47.2 | 46.5 | 41.4 | 34.6 | | 34.5 | 26.8 |
| 10000 | 39.2 | 33.3 | | 38 | 37.9 | 37.1 | 36.8 | ė | 38.6 | 39.9 | 36,6 | 37.3 | 4.0.7 | 38.6 | 34.7 | 25.5 | ~ | 25.5 | 15.0 |
| 12500 | 32.5 | 25.0 | | 32 | 31.0 | 29.3 | 29.2 | 29.1 | 31.5 | 33.1 | 28,9 | 30.1 | 33.6 | 30.9 | 25.7 | 13.4 | ٠ | 11.1 | 3.2 |
| 16000 | 25.7 | 12.7 | | 24.4 | 23, 2 | 19.7 | 19.5 | 19.4 | 23,5 | 25.7 | 17.1 | 19.6 | 25.1 | 18.4 | 12.9 | 1.2 | | | |
| 23000 | 14.5 | * | 15.0 | 11. | 10.1 | 10.1 | 6.6 | 9.7 | 10.1 | 12.7 | 5,3 | 8.0 | 15.1 | 6.0 | ~ | | | | |
| 25000 | 3.2 | | 3 | | | 4 | 6 | | | | | | | | | | | | |

| FLIEDRE SOURCE SUPPRESSOR | | AS A F | FUNCTION | NO OF A | ָרַ ב <u>ּי</u> | VED NOISE LEV AND DISTANCE | | ž Š | SOURCE | | 1 | : | 1 | ļ | | | OMEGA TEST | DENITION ONEGA 6.2 TEST 77-778-0 | FICATIONS 6.2 77-778-081 | |
|--|--------------------|--|-------------------|---------------------------------------|-----------------|-------------------------------|-------|--------------|---------|------------|-------|------------------------------------|----------|------|------|-------|---------------|-------------------------------------|--------------------------------|--------------|
| The color of the | NOISE AF | NURCE/SL 16 NOISE 12A-17 IND RUNI | JBJECT 1 SUPPR | RESSOR | | OPERA S S | ! _ E | ENGINE | (SUPPRI | ESSED) | | ETEORO TEN BAR BEL REL | L OGY 1 | #29° | r H× | ی | PAGE OF REST | RAFT RATION FILE VE 40V 79 | CODE CODE RSION | 776 00118 |
| 100.2 4 100.4 103.6 100.7 100.4 100.2 100.6 100.7 100.7 100.5 105.7 103.6 105.7 103.6 100.2 100.5 100. | DISTANCE (FEET) | | | 20 | į M | • | 29 | 99 | 20 | ANGL 90 | | 100 100 | 110 | 120 | 130 | 140 | 158 | 160 | 170 | 87 |
| 95.5 93.3 95.8 94.7 96.1 1016 101.3 99.4 97.5 104.0 102.9 102.9 102.1 101.0 10 | 200 | ₫. | | 103 | 101.7 | 4 ¢ | | _ | | oo u | | - | - | | | 102.2 | 99.8 | 97.3 | 97.1 | 92.8 |
| 95.5 93.3 95.8 94.7 96.1 96.6 95.0 101.5 140.4 99.7 96.5 96.5 95.8 92.8 92.8 98.1 98.2 93.1 93.6 95.1 95.4 96.9 97.8 97.1 96.6 95.8 97.8 97.8 97.1 96.9 95.8 97.8 97.8 97.1 96.9 97.8 97.8 97.1 96.9 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97 | 315 | 4 60 | | • • • • • • • • • • • • • • • • • • • | 97.1 | و د د | | . | | 0 | | - 80 | | • | | 97.5 | 95.8 | 92.6 | 92.5 | 96.1 |
| 95.6 86.6 86.4 86.4 87.1 85.2 83.5 91.6 95.0 96.0 96.0 97.3 90.2 93.2 93.6 97.8 87.8 87.8 87.8 87.8 87.8 87.8 87.8 | 90 | | 93.3 | 95 | 94.7 | 44 | | - | | 6 a | 160.4 | ٠, | | 96.5 | | 95.0 | 92.5 | 98.1 | 91.2 | 85.5 |
| 85.0 85.4 88.2 86.7 83.6 86.4 87.1 65.2 83.5 89.7 92.9 92.1 91.3 90.4 99.3 89.3 87.3 84.8 86.8 82.2 82.5 85.1 85.1 85.2 85.5 84.5 84.5 84.5 84.5 84.5 84.5 84.5 | 9 20 | 9 50 70 70 70 70 70 | 88.8 | 90.9 | 9 6 | 2:0 | | | | | 95.0 | | 93.2 | 93.1 | | 90.0 | 87.0 | | 85.2 | 61.3 |
| 85.0 82.6 85.4 83.4 86.4 87.1 85.2 83.5 89.7 89.0 88.0 87.3 86.5 86.5 86.5 86.5 86.5 77.6 75.4 76.7 78.7 78.8 82.1 79.5 82.4 86.8 83.0 83.6 81.9 88.4 86.1 85.7 84.1 84.2 83.6 81.5 77.6 76.4 76.7 78.7 78.6 81.9 77.1 74.7 78.6 76.3 77.1 74.7 78.6 78.8 77.1 74.7 78.6 78.8 77.1 74.7 78.6 78.8 77.1 74.7 78.6 81.9 81.8 77.1 74.7 78.6 87.8 89.8 77.1 87.2 77.4 77.1 74.7 78.6 87.8 89.8 77.1 87.2 77.2 77.4 77.1 74.7 78.6 85.8 89.8 87.8 87.8 87.8 87.8 87.8 87.8 87 | 90 | 87.8 | 85.4 | 88.2 | 86.7 | 9 | | | 86.7 | on on | 92.1 | - | 90.4 | 99.3 | | 87.3 | | 82.2 | 82.5 | 77.6 |
| 82.1 79.5 82.4 86.8 83.8 83.8 83.6 81.9 80.4 86.1 85.7 84.5 84.1 84.2 83.6 81.5 77.6 76.4 76.7 78.7 78.8 78.3 77.1 78.6 79.4 80.8 77.1 77.2 77.2 77.2 77.2 77.2 77.2 77.2 | 1000 | 3 | 82.5 | 85.4 | | | 87.1 | 85.2 | 63.5 | 89.7 | 89.0 | 88.0 | | 67.3 | 86.5 | 84.5 | 80.8 | 79.4 | 79.7 | 74.8 |
| 78,9 76,3 77,6 79,4 60,0 78,3 77,1 82,2 82,1 80,9 80,8 80,9 78,3 77,3 73,1 73,4 75,4 77,2 77,2 77,4 77,1 74,7 76,6 69,5 69,8 75,4 72,7 75,4 77,2 77,2 77,4 77,1 74,7 78,6 69,5 69,8 69,8 75,4 72,7 73,7 73,7 73,7 73,7 73,7 73,7 73,7 | 1250 | 82.1 | 79.5 | 82.4 | 86.8 | 8 3, 0 | 83.6 | 81.9 | 80.4 | 86.1 | 85.7 | 84.5 | 84.1 | 84.2 | 83.6 | 81.5 | 77.6 | 76.4 | 76.7 | 7. |
| 7.15 | 1608 | 78.9 | 76.3 | 79.3 | 77.6 | | 80.0 | 78.3 | 77.1 | 82,2 | 82.1 | 86.9 | 80.8 | 83.9 | 80.5 | 78.3 | 76.3 | 73.1 | 73.4 | ; |
| 67.1 64.3 67.5 65.8 65.8 65.8 67.3 66.2 65.2 68.9 68.9 69.1 68.9 69.6 69.3 66.5 62.1 61.2 61.4 61.9 61.9 59.8 62.3 68.9 61.3 56.8 62.3 68.9 61.3 56.8 61.3 56.8 61.3 56.8 61.3 56.8 61.3 56.8 61.4 61.9 59.8 59.2 55.8 51.3 56.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 57 | 25.00 | 71.5 | 60.7 | 71.9 | 70.2 | | 71.7 | 70.6 | 69.6 | 73.7 | 73.7 | 73.3 | 73.2 | 73.7 | 73.4 | 2 | 999 | 65.5 | 65.8 | 3 |
| 61.9 59.8 62.3 68.9 61.8 61.9 68.9 68.1 63.5 63.7 64.8 64.8 64.8 61.3 56.4 55.9 55.9 55.9 55.9 55.9 55.2 56.6 55.7 56.8 57.8 58.2 58.6 56.1 59.4 59.2 55.4 58.1 58.8 49.7 51.1 52.8 52.4 51.5 53.5 53.5 53.8 49.3 42.3 42.3 42.3 42.3 44.8 39.7 45.3 56.4 54.4 44.2 47.4 46.7 41.7 35.8 35.2 34.7 44.8 39.7 45.3 44.4 44.2 47.4 46.7 41.7 35.8 35.2 34.7 35.8 35.2 34.7 35.8 35.2 33.7 135.4 35.8 36.7 38.6 37.3 40.7 38.6 37.3 40.7 35.8 35.7 135.4 135.8 35.7 135.8 33.1 28.9 38.1 33.6 38.1 28.4 13.6 13.1 13.4 13.5 13.1 13.1 13.1 13.1 13.1 13.1 13.1 | 3150 | 67.1 | 64.3 | 67.5 | 65.8 | | 67.3 | 66.2 | 65.2 | 68.9 | 6.89 | 69.1 | 69.9 | 9.69 | 69.3 | 66.5 | 62.1 | 61.2 | 61.4 | 55.7 |
| 96.2 52.6 56.6 55.7 56.3 57.8 57.8 58.6 58.6 59.2 55.4 58.1 58.6 <th< td=""><td>0004</td><td>61.9</td><td>20.0</td><td>62.3</td><td>66.9</td><td></td><td>61.9</td><td>60.0</td><td>69.1</td><td>63.5</td><td>63.7</td><td></td><td>63.7</td><td>64.6</td><td>64.5</td><td>61.3</td><td>56.4</td><td></td><td>55.9</td><td>49.1</td></th<> | 0004 | 61.9 | 20.0 | 62.3 | 66.9 | | 61.9 | 60.0 | 69.1 | 63.5 | 63.7 | | 63.7 | 64.6 | 64.5 | 61.3 | 56.4 | | 55.9 | 49.1 |
| 50,3 45,3 50,7 45,9 50,1 49,6 49,1 48,7 51,1 52,0 52,4 51,5 53,5 53,5 49,3 42,3 42,5 42,5 42,5 42,5 42,5 42,5 42,5 42,5 | 70 00 10 00 | 56.2 | 52.6 | 26.6 | 55.7 | | 56.1 | 55.3 | 54.8 | 57.8 | 58.2 | | 58.0 | 59.4 | 59.2 | 55.4 | 50.1 | 51.1 | 49.7 | 150 |
| 39.2 33.3 39.4 38.6 37.9 37.1 36.8 36.7 38.6 39.9 36.6 37.3 40.7 38.6 34.7 25.5 26.2 25.5 32.2 33.3 39.4 38.6 34.7 25.5 26.2 25.5 32.5 25.6 33.1 28.4 33.6 38.7 25.8 25.7 13.4 13.5 25.7 13.7 13.6 13.1 25.7 13.6 13.6 13.6 13.6 13.6 13.6 13.6 13.6 | 90708 | 50.3 | 45.3 | | 94 | | 6.0 | 4.0 | 48.7 | 51.1 | 52.6 | 52.4 | 51.5 | 53.5 | 53.3 | 49° 3 | 42.3 | 42°8 | 42.3 | 22. |
| 39.2 33.3 39.4 38.6 37.9 37.1 36.8 36.7 38.6 39.9 36.6 37.3 40.7 38.6 34.7 25.5 26.2 25.5 32.5 25.6 33.1 32.4 33.6 34.7 25.5 26.2 25.5 32.5 25.0 33.1 32.4 33.6 34.7 25.5 25.7 33.1 26.9 38.1 33.6 38.9 25.7 13.4 13.6 11.1 12.7 25.8 25.7 12.7 25.8 26.4 23.2 19.7 19.5 19.4 23.5 25.7 17.1 19.6 25.1 16.4 12.9 1.2 1.1 11.5 18.1 18.1 18.1 18.1 18.1 18.1 | | • | | | | | | , | | • | • | • | 1 | | | | | | | |
| 32.5 25.0 33.1 32.4 31.0 29.3 29.2 29.1 31.5 33.1 28.9 30.1 33.6 30.9 25.7 13.4 13.6 11.1 25.7 12.7 12.4 12.5 11.1 12.7 12.7 12.7 12.9 1.2 1.1 11.1 12.7 25.7 17.1 19.6 25.1 16.4 12.9 1.2 1.1 1.1 14.5 .4 15.0 11.8 18.1 18.1 18.1 9.9 9.7 18.1 12.7 5.3 8.0 12.1 6.0 .2 1.2 1.1 3.2 3.2 4.1 5.0 12.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1. | 10000 | 39.5 | 33.3 | 39.4 | 38.6 | 37.9 | 37.1 | 36.8 | 36.7 | 38.6 | 39.9 | 36.6 | 37.3 | 40.7 | 36.6 | 34.7 | 25.5 | 26.2 | 25.5 | 15.1 |
| 25.7 12.7 25.8 24.4 23.2 19.7 19.5 19.4 23.5 25.7 17.1 19.6 25.1 16.4 12.9 1.2 1.1 14.5 .4 15.8 11.6 18.1 18.1 9.9 9.7 18.1 12.7 5.3 8.8 12.1 6.8 .2 1.3 3.2 3.2 | 12500 | 32,5 | 25.0 | 33.1 | 32.4 | 31.0 | 29.3 | 29.5 | 29.1 | 31.5 | 33.1 | 28.9 | 30.1 | 33.6 | 30.9 | 25.7 | 13.4 | 13.6 | 11.1 | 3.5 |
| 14.5 .4 15.8 11.5 18.1 18.1 9.9 9.7 18.1 12.7 5.3 8.4 12.1 6.8 . 3.2 4.1 | 16040 | 25.7 | 12.7 | 25.8 | 24.4 | 23.2 | 19.7 | 19.5 | 19.4 | 23.5 | 25.7 | 17.1 | 19.6 | 25.1 | 18.4 | 12.9 | | 1:1 | | |
| | 20002 | 14.5 | • | 15.0 | 11.6 | 10.1 | 18.1 | | 7.6 | 10.1 | 12.7 | 9. 8. | . | 12.1 | • | | | | | |

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| (TABLE: | TONE-C | TONE-CORRECTED, A-WE AS A FUNCTION OF ANG | ED, A-N OF A | LE E | | OVERALL SO | SOUND LE | LEVEL (C | (DBA) | | | | | | |) IDENTI) OMEGA) TEST | DENTIFICATIONS OMEGA 6.2 TEST 77-778-00 | FICATION: 6.2 77-778-001 | |
|---|--|--|--------------|----------|--------------------|--------------|----------|--------------|--------------|--------------|--|----------------|-------------------------|--------------|--------------|---------------------------------------|--|--------------------------------|---------------------|
| (MOISE SOURCE/SUBJECTS F-106 NOISE SUPPR AF 324-17 GROUND RUNUP | E SOURCE/SUB F-106 NOISE AF 32A-17 GROUND RUNUP | BJECT 1 SUPPRESSOR | ESSOR | · I | i iji | 1 5 _ | NGINE | (SUPPRESSED) | ESSE D) | E 6 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | = 59 = 29,92 = 70 | X I HG | | AIRCRAF OPERATI PROFILE PAGE | AIRCRAFT OPERATION OPERATION OPROFILE VELZA NOV 79 PAGE GZ | CODE CODE RS I ON | 778 00118 - A |
| (DISTANCE (FEET) | - | 97 | 20 | 30 | 9 | 50 | 9 | 2 | ANGLE | | 0EGREES) | 110 | 120 | 130 | 141 | 150 | 160 | 170 | 180 |
| 500 | 88.1 | 1.59 | 88.9 | | | 90.8 | 89.2 | 87.8 | 93.7 | 93.1 | 92.7 | 91.9 | 95.4 | 91.5 | 88.9 | 84.8 | 83.3 | 83.1 | 77.8 |
| (250 (315 | 86.0 3.8 | 83.5 | 86.8 84.5 | | 8 8. 0 57. 7 | 86.6 86.3 | 86.9 | 85.6 84.4 | 91.4 89.0 | 90.9 | 90.5 | 89.6 | 98.8 | 89.4 | 86.8 84.8 | 82.5 | 81.1 78.9 | 81.0 | 75.6 |
| 004 | 01.6 | 79.0 | 82.3 | 4 | | 63.9 | 82.3 | 81.0 | 86.5 | 86.1 | 85.8 | 85.0 | 85.7 | 6.40 | 92.2 | 77.9 | 76.6 | 76.5 | 71.1 |
| 200 | 79.3 | 76.7 | 80.0 | å, | 6.0 | 81.4 | 79.9 | 78.7 | 84.0 | 83.6 | 63.3 | 82.5 | 83.4 | 82.6 | 79.9 | 75.5 | 74.3 | 74.1 | 68.8 |
| 929 | 76.9 | 74.3 | 77.7 | 76.6 | 78.4 | 78.8 | 7.5 | 76.3 73.8 | 81.3 78.5 | 81.1 78.4 | 80.7 78.1 | 80.0 77.3 | 81.0 78.5 | 80.2 77.8 | 77.5 | 7 0° 4 7 0° 4 | 71.6 69.3 | 71.7 | 65.4 63.9 |
| _ | | | | | | | | | | | | | | | | | | | |
| 1000 | 72.0 | 69.2 | 72.6 | 7167 | 73.6 | 73.4 | 72.2 | 71.2 | 75.6 | 75.6 | 75.3 | 74.6 | 75.9 | 75.2 | 72.3 | 67.7 | 66.8 | 66.6 | 61.3 |
| 1608 | 9.00 | 63.7 | 67.4 | ٥ | 67.3 | 67.5 | 66.5 | 65.0 | 4.69 69.4 | 69.6 | 69,3 | 68.7 | 70.4 | 69.8 | | 61.9 | 61.2 | 61.1 | 50.00 |
| (2000 | 63.8 | 60.8 | 64.6 | 'n | 64.3 | 64.3 | 63.6 | 65.9 | 66.1 | 4.99 | | 65.5 | | 66.8 | 63.7 | 50.0 | 59.2 | 58.0 | 52.0 |
| 2560 | 69.7 | 97.6 | 61.6 | . | 61.1 | 61.0 | | 59.8 | 9.29 | 63.0 | 9.29 | 62.1 | | 63.7 | 60.5 | 55.4 | 55.1 | 54.8 | 49.6 |
| 3158 | 57.3 | 7.0 | 58.2 | 57.2 | 57.2 | 57.6 | 57.0 | 56.5 | 50° 4 | 50.0 | 58.9 | 50° 4 | 61.1 | 60.3 | 57.1 | 51.9 | 51.6 | 51.3 | 46.4 |
| 2000 | 40.0 | 12.0 | 19.7 | , 0 | , 4 9 9 8 | 60, | | 40.4 | 20.2 | 51.0 | 20.0 | 9.64 | 52.9 | 52.0 | 100 | 43.1 | 43.4 | 42.9 | 37.7 |
| 6300 | 44.0 | 40.0 | 45.0 | | 44.0 | 44.2 | 43.9 | 43.7 | 45.3 | 46.2 | 45.0 | 44.6 | | 47.2 | 43.9 | 38.2 | 38.3 | 38.0 | 33.0 |
| 9008 | 39.6 | 36.2 | 40.6 | | 40.3 | 39.6 | 39.4 | 39,3 | 49.6 | 41.6 | 39.8 | 39.8 | 43.6 | 45.1 | 38.9 | 33.2 | 33.4 | 33.1 | 28.4 |
| 10000 | 35.0 | 31.4 | 36.0 | ď | | 34.6 | 34.5 | 34.4 | | 76.7 | 7 .42 | 47 | 78. E | 76.7 | 41.6 | 27.0 | 28.1 | 7.70 | 23.4 |
| 12500 | 400 | 26.5 | 31.3 | 31.0 | | 29.7 | 29.5 | 29.4 | 30.7 | 31.7 | 28.8 | 29.5 | 33.2 | 30.9 | 28.1 | 22.6 | 22.8 | 22.3 | 18.5 |
| 16000 | 25.4 | 21.3 | 26.2 | å | | 24.3 | 24.1 | 24.0 | | 26.3 | 23.0 | 24.0 | 27.4 | 24.7 | | 17.0 | 17.1 | 16.4 | 13.3 |
| 1 20800 | 20.0 | 15.9 | | ė | | 16.4 | 19.5 | 19.1 | | 20.4 | 16.9 | 19.1 | 21.0 | 18.1 | | 11.2 | 11.2 | 10.3 | 8.2 |
| 25000 | 14.2 | 10.2 | 14.6 | j | 13.0 | 12.0 | 11.8 | 11.7 | 3.0 | 13.9 | | 11.7 | 14.1 | 11.0 | 8.9 | 5.2 | 5.2 | . | 3.5 |
| , | | | | | | | | | | | | | | | | | | | |

| | 0 | DISTANCE = | = 250 FEET | | | Andre Atomic Societies | | 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : | • • • • • • • • • • • • • • • • • • • | | ONEGA TEST 7 | 105 T T T T T T T T T T T T T T T T T T T | |
|--|----------------------|-----------------------------------|--|-----------------|--|------------------------------|------|--|--|----------|---|---|---------------------|
| 2010 1010 1010 1010 1010 1010 1010 1010 | 32A- 32A- 0UND | E/SUBJE OISE SU 17 RUNUP | E SOURCE/SUBJECTI F-106 NOISE SUPPRESSOR AF 32A-17 GROUND RUNUP | | OPERATIONS BEX RPH SINGLE EN GROUND RU | ENGINE RUNUP (SUPPRESSED) | | METEDROLOGY: TEMP BAR PRESS REL HUMID DELTA N = 0. | S = 59 F S = 29.92 IN 0 = 78 X 0.0 08 | 9 | AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE 32 | CODE CODE RS ION | 776 86116 N A |
| | | | | P=PNLT | NLT | | A=AL | | # - | F=ALT | | | |
| | 4 | | • | | | • | • | • | _₩ | • | - 0 | • | |
| | 7 | | • • • • • | • | • | | | • | | • | . • | • • • • • | |
| | 1 8 | • • | • • | • • | • • | • • | • • | • • | | • • | • • ' | • • | - ~ |
| | | • • | • • | • • | • • | • • | • • | • • | - | •• | ٠. | • • | |
| | 9 9 | • • • | • | • | • | • | • | • | | • | | • | <u> </u> |
| | 7 | •• | • • | • • | • • | • • | • • | • • | | •• | • • | • • | |
| < 2 | 20 | • | • (| • | • • | • (| • | • | < | . | • | • | ~ - |
| . 0 | 9 | ٠. | • | • | • | • | • | • | A.T. | • | • | • | ~ ~ |
| ى ب | 70 | •• | •• | •• | • • | • • | • • | • • | ⊬ ≪ | • • | •• | • • | ~ ~ |
| н | | •• | •• | • • | • • | • • | •• | •• | • • | • ¥ | •• | •• | |
| z | 96 | | • | • | | • | • | • | | AT. | • | | ~ ~ |
| O M | 190 | ••• | • • | · • • • • | • • • | • | • | • | • | A. | • | • | |
| 0 C | 110 | •• | • • | • • | • • | • • | • • | • • | • • | ۰. | • • | • • | |
| w w | 120 | • | • | • | • | • | | | | AT | à | | ^ - |
| S | 130 | •• | • • | • | • • | • | • | • | • | AT. | | · · • • · | |
| | 140 | •• | • • | • • | • • | • • | • • | • • • | • | • • | • • • | • • | ~ ~ |
| | 150 | • | | | | | | • | A. T. | • | | • | - |
| | 160 | | • | , , • • | • • • • | • | • | • | , ¥. | • | | • | |
| | 170 | •• | • • | • • | • • | • • | • • | • • | . ¥ | • • | •• | • • | ~ ~ |
| | 188 | | | | • | | | | | • 0 | • | • | ~ ~ |
| | | | • | | • | • | • | | | • | • | | _ |
| | | • | | | | | | | | | | | - |

| TABLE: NORMA | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 250 | PRES: FEET | SURE | LEVEL | (08) | | | | 1 | | 1 | | | IDENTIF OMEGA TEST 7 | 8.2 77-778-0 | 10N: | | |
|-------------------------------|--|----------------------|---------------|----------------------------|---|-----------------|----------------|------|---------------|------------------------------|---|-------|---------------------------------------|-----------|----------------------------|-----------------|--------|-------------------|---|
| NOISE F-10 AF 3 GROU | IS C | r s SSOR | | OPERA 95% Sin Gro | PERATIONS 95% RPM SINGLE E GROUND RE | ENGINE RUNUP | . – | ı w | | ETEOR TEMP BAR ELTA | OLOGY: | 86.0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9 | | _ω_ | CODE 7 | 778 80116 A | |
| BAND CENTER FREQ (HZ) | 0 | 97 | 20 | 30 | 9 | ω ω | 09 | ANGL | LE (DE | GREES) | ======================================= | 0 120 | 130 | 941 | 150 | 160 | 176 | 180 | • |
| 9 | 85 | | 85 | 82 | | G | | | 7 | 2 9 | | | • | 60 | 80 80 | 85 | 87 | 87 | |
| 63 | | | 83 | 80 | | 4 | | | 7 7 | 8 7 | | | ~ | 76 | 79 | 81 | 4 | 9 4 | |
| 9 | 1 | | 9 (| 28 | | ~ | | | 4 | 8 | | | ~ | 76 | 92 | 78 | 8 | 84 | |
| 100 | T 6 | 5 6 | | # C | | 20 • | | _ | 90 1 | 20 | | | ~ 1 | 77 | 92 | 77 | 79 | 82 | |
| 160 | 9 6 | | 762 | 9 M | 2 8 | 1 18 | 3 4 | 76 | | | o r. | 7.4 | 9 4 | 2 4 | 5 K | # 0 / | , r | 9 G | |
| 200 | 83 | | 81 | 81 | | | | | | 7 | | | . ~ | 78 | . 60 | . 8 . 0 | 19 | 8 | |
| 250 | 28 | | 91 | 62 | | 80 | | | 7 7 | 9 | | | ~ | 75 | 18 | 7.8 | 74 | 12 | |
| 315 | 29 | | 8 | 81 | | ca · | | | 6 | 8 | | | _ | 74 | 73 | 92 | 72 | 73 | |
| | () () | | 7 C | ۲ و و | | ~ (| | | 1 | 6 | | | ~ (| 73 | 2 | 73 | 69 | 7.7 | |
| 3 E | . « | | 2 6 | 0 C | | 7 P | | | . r | . · | | | ~ • | 7,5 | 2.5 | 50 | 9 9 | 9 1 | |
| 800 | 77 | 2.2 | . 8 | 6 | | . თ | | | . 6 | 9 | | | - ~ | 7.4 | 2 K | 76 | 2 E | 6 6 | |
| 1000 | 92 | | 9/ | 79 | | ெ | | | 7 7 | 2 | | | ~ | 7 | 7.5 | 77 | 7.3 | 69 | |
| 1256 | 75 | | 7.1 | 92 | | m | | | 1 7 | 1 | | | ~ | 7. | 73 | 7.4 | 20 | 6.0 | |
| 1600 | 11 | | 92 | 79 | | Ф | | | 0 7 | 8 | | | _ | 9, | 11 | 62 | 92 | 20 | |
| 2000 | 73 | 7.6 | 15 | 78 | | | | _ | 1 7 | 8 7 | | | ~ | 74 | 92 | 28 | 92 | 70 | |
| 2500 | 72 | | 73 | 92 | | ~ | | - | 2 | 7 | | | ~ | 1.4 | * | 22 | 74 | 29 | |
| 3156 | | | 72 | 92 | | 80 | | | ~ ≠ | 1 | | | ~ | 4 ~ | 72 | 7. | 73 | 99 | |
| 2004 | | | 74 | 78 | | σ | | | 8 | 3 7 | | | ~ | 78 | 75 | 11 | 75 | 69 | |
| 2000 | 29 | 99 | 68 | 22 | - | • | | | 9 | 6 | | | 7 | 7.1 | 29 | 70 | 29 | 61 | |
| 6300 | | | 99 | 70 | | ው | | _ | 9 | 5 | | | 9 | 68 | 65 | 29 | 49 | 25 | |
| 9008 | 61 | | 63 | 6 2 | | و | | | 9 | 9 | | | 9 | 99 | 61 | 62 | 29 | 53 | |
| 16000 | | | 99 | 61 | | ю | | | . | | | | w | 9 | 20 | 28 | 22 | 20 | |
| OVERALL | 93 | 26 | 93 | 93 | 36 | , 26 | 26 | 92 | 91 9 | 6 | 88 3 | 89 | 88 | 6 | 96 | 91 | 91 | 36 | |
| | | | | | | | | | | | | | | | | | | | |

| <u> </u> | | | | | | | | ~ ~ | - | | ~ | | _ | _ | | |
|---------------------------|--|-----------------------|-----------------------------------|----------------------|------|------|--------------|------|------|----------------|----------|-----------------------|---------|-------|--------------|----------|
| | 778 00115 - A | 180 | 97.8 95.5 93.2 | 90.7 | 82.7 | 79.8 | 73.5 | 69.9 | 61.2 | 55.9 | 45.6 | 36.4 | 27.0 | 17.4 | 7.8 | |
| TION: 2 78-001 | CODE CODE ERSION | 170 | 101.5 99.2 96.8 | 94.3 | 86.1 | 63.3 | 80.2 76.9 | 73.4 | 64.8 | 59.9 | 10.0 | 40.6 | 32.9 | 22.4 | 11.9 | • |
| IFICA 4 8. | NATION RATION FILE V | 160 | 103.4 101.1 98.7 | 95.2 | 68.0 | 85.1 | 82.1 78.8 | 75.3 | 67.2 | 62.5 57.0 | 51.3 | * | 37.6 | 20.8 | · . | • |
| DOENTI DOMEGA DTEST | PAGE COPERC | 150 | 99.6 | 94°8 92°2 89.4 | 86.5 | 83.7 | 80.7 77.4 | 73.9 | 65.8 | 61.1 55.7 | 49.8 | 45.9 | 36.4 | 27.1 | 14.8 24.8 | • |
| | | 3 4 6 | 103.3 101.9 98.6 | 96.1 | 87.7 | 84.5 | 81.0 77.3 | 73.6 | 65.4 | 50°6 | 49.0 | 43.0 | 36, 3 | 28.4 | 17.4 | • |
| | N N HG | 130 | 100.1 1 97.7 | 95.2 | 96.8 | 83.6 | 86.2 76.4 | 72.7 | 63.8 | 58.8 53.4 | 46.8 | 9.04 | 34.3 | 26.9 | 16.9 | • |
| | = 59 =29,92 = 71 | 12u | 02.4 1 00.00 1 97.7 | N W ≪ | 40 | ∞ . | N M | 73.6 | - | ~ * | o | m | 36.4 | 29, 3 | 20.5 | • |
| | OGY : PRESS HUMID | 110 | 01.9 1 99.6 1 97.2 | 96.8 | 86.9 | 84.0 | 80.9 77.5 | 73.8 | 65.1 | 60°2 54°6 | 48.4 | 43.3 | 37.3 | 30.5 | 22.4 | |
| | TEOROL TENP BAR REL LTA N | EGREES) 100 | 2.7 0.5 1.2 | | 6 2 | 85.0 | 81.9 78.6 | 74.9 | 66.5 | 61.5 56.0 | 49.7 | 43.7 | 38.1 | 31.1 | 22.6 | 6. |
| | 五 三 三 三 | 28 | 02.3 1 00.1 1 97.8 | 93.0 | 87.8 | 85.0 | 82.U 78.8 | 75.3 | 67.2 | 62°5 | 51.6 | 45.8 | 40.0 | 33.8 | 26.7 | |
| | SS±0) | ANGLE 80 | * 200 | 97.7 95.3 | 90.1 | 87.3 | 84.3 81.1 | 77.6 | 69.4 | 54.6 59.4 | 53.5 | 48.1 | 42.7 | 36.3 | ۵ : ه د د | 9.6 |
| SOURCE | (SUPPRESS _E D) | 20 | 105.1 1 102.8 1 100.5 1 | 98.2 | 90.6 | 87.8 | 84.9 | 78.3 | 70.3 | 65.8 60.7 | 55.3 | 0 0 | 6 • 4 4 | 38.3 | 31.2 | 10.1 |
| FROM SC | S I N I | ŋ. 9 | 80 .0 N | 97.8 95.2 | | ٠ | 83.5 | 77.1 | 68.9 | 59.6 59.6 | 54.3 | 4 9 5 | 44.1 | 38.2 | 31.7 | 10.6 |
| 1 | RATION: 95% RPM SINGLE E GROUND R | 50 | 05.8 03.5 01.1 | 98.7 96.1 | | 87.7 | 84.7 | 78.0 | 69.7 | 54°8 50°4 | 54.0 | 6.8 | 43.3 | 36.7 | 36.3 | 11.2 |
| PNDB) | OPERA 95 GR | 9 | 0.65 99.99 14.096 14.096 | | ď | \$ | 83,1 79,9 | 76.3 | | 5 % 4 5 % 4 | 8 | • | &ં | 'n. | 29.1 | : |
| , — w | | 30 | 105.7 1 103.5 1 101.1 | 98.7 96.1 93.4 | 90.5 | • | | 78.2 | | | _ | _ | - | • | 31.2 | |
| ы Б | t I | | 103.u 108.7 98.4 | 95.9 | 80.0 | 85.4 | 82.6 79.6 | 76.5 | 68.1 | 63.1 58.0 | 52.7 | 47.6 | 42.3 | 36.3 | 5 62 | 6:2 |
| 2 1 | 1 M 2 | 10 | 161.4 1 99.1 1 96.7 | 94. 91.9 | 96.6 | 63.9 | 77.7 | 74.4 | 9.99 | 61.9 55.8 | 51.1 | * 0 • * | 41.0 | 34.7 | 7 9 7 | 7.6 |
| PERCEIVED AS A FUNCT | SOURCE/SUBJECT 106 NOISE SUPP 32A-17 OUND RUNUP | | 102.5 1 103.2 97.9 | 95.6 93.2 | 88.0 | 85.3 | 79.2 | 75.9 | 68.2 | 63.7 58.7 | 53,3 | 48.6 | 43.2 | 37.4 | 30.3 | 7.6 |
| TABLES | NOISE NOISE AF | (DISTANCE (FEET) | 200 1 2550 1 315 | | | 1000 | 1550 | 25.0 | 3150 | 5630 5630 | 6300 | 90.00 | 10000 | 12500 | 16406 | 25000 |

| | 9 | | 40 PC 40 | 500 | 100 | ~ 4 | m | 9 | - | * ~ | , m | • | . - | 4 | • | _ |
|---|--|--------------------|-------------------------|---|-------|-------------|----------|--------------|----------|--------------|-------|-----------|----------------|-----------|--|------------|
| | 776 0011(| 180 | 99. | 92. | | 61. | 25 | | | 2 22 | 4 | 36 | 27. | 17. | Z | |
| 0N1 | CODE | 170 | 103.4 | 96.1 | 7.9 | 85.1 | | 73.2 | 2.9 | 55.7 | 40.0 | 4.6 | 32.9 | 22.4 | 11.9 | • |
| DENTIFICATIONS OMEGA 8.2 TEST 77-778-80 | | İ | 44 | Ø m 14 | ۸.۵ | • | ь то с | . | • | D G | | • | ۰ | • | | |
| TIFI CATE | A F I > | 160 | 105. 102. 100. | 95. | 68 | 96 | 9 | 73 | 69 | 9.00 | 51. | į | 37. | 28 | 12 | j |
| IDENTIN OMEGA TEST | PROPERTY PAR | 150 | 03.7 01.4 99.1 | 96.6 | 9 | 85.5 | 79.2 | 7.2 | 7.6 | 52.5 56.6 | 6.5 | | 6.4 | 7.1 | ************************************** | |
| | | | 464 | ~ ~ ~ | | me | . | . IN | ~ | . | | m | m | | | |
| | 9 | 0 7 7 | 105.1 | 95. | 6 | 86. | 26 | 7.5 | 67. | 9 6 | 6 | 63 | 36 | 28 | 17. | 5 |
| | F II X | 130 | 04.2 01.9 99.5 | 97.0 | 9.0 | 85.4 | 2.0 | 76.4 | 5.5 | 7 4 | 47.5 | 6.0 | 34.3 | 6.9 | 16.3 | • |
| | 59 9.92 70 | | | o m u | N 160 | 10 4 | | m -1 | | -4 LG | و ، | 2 | | 17 | r | • |
| | 11116 | 120 | 104. 101. 99. | 96. | 88 | 85. | 6.2 | 72. | 9 | 61. 55. | \$ | 454 | 36. | 5 | 20. | 5 |
| | PRESS HUMIO | 977 | 01. 9 99. 6 97. 2 | 94.6 | 96.9 | 96 | 77.5 | 73.8 | 55.1 | 54.6 | 40.4 | | 37.3 | 30.5 | 22.4 | 4 |
| | SEATS. | | ~ ₩ % | | _ | 90 | | D 0 | . | v = | . ~ | ~ | - | 44 | پ م | ο σ |
| | WETEC 1 B B DELTA | EGREES 100 | | 900 | | | | | | | | | 38. | 37 | 25 | • |
| | | 25 | 03.5 61.3 | 96.7 | 89.0 | 36.2 | 90.00 | 76.5 | 58.4 | 53.4 | 52.0 | 46.1 | 40.0 | 33.8 | 26.7 | 2 4 |
| | E E | ANGLE 80 | | | | σ σ | ~ ~ . | N 4 | | o m | · ~ | * | ~ | м | . | , |
| | RESSI | A S | | 900 900 900 900 900 | 16 | 80 4 | 82. | ر اور اور | 7. | 9 | IV. | 94 | | | 30. | |
| SOURCE | (SUPPRESSED) | 2 | 106.8 104.5 102.2 | 99.8 | 92.3 | 89.5 | 9 9 9 9 | 79.9 76.1 | 71.9 | 67.1 61.7 | 56.8 | 50.9 | 44.9 | 38.3 | 31.2 | 10.1 |
| | INE UP C | 5 | | | | 88.1 | | 78.7 | | | | 60 | | | 31.7 | |
| ב. בי | ENGINE RUNUP | 9 | | 96.8 | | | | | | | | | | | | |
| DISTANCE F | RATION: 95% RPM SINGLE GROUND | 20 | 06.9 | 99.7 | 91.6 | 86.8 | 82.5 | 79.0 | 78.8 | 65.7 | 54.4 | 49.2 | 43.3 | 36.7 | 30.3 | 11.2 |
| NOISE LEV DISTANCE | 1 6 2 | 3 | 900 | 50 0 | 4 (4) | ~ ~ | . O | a t | ~ | \$ 6 0 | ~ | | 74 | | | |
| VED N | 3 O D C | | 105. 103. | | | 67. | | , ç | | n q | , fiv | 4 | * | M | ~ | • |
| Э | | | 05.7 | 98. 98. 14. | | | | 78.2 | 8 | ň | 3 | ð | 3 | ~ | 31.2 | ; ; |
|), PERCE OF ANGL | e K | | | 97.2 | | ► 0 | | | | N 60 | | σ. | | | 29.9 | |
| TED. | JECT : SUPPRESSOR | 0 2 | ਜ ਜ | | | 86. | | 73. | | 200 | | | | | | |
| -CORRECTED FUNCTION | SUPP | 2 | 102.4 168.1 97.8 | 95.4 | 87.7 | 84.9 | 78.7 | 75.5 | 67.6 | 62.8 57.4 | 51.5 | 46.6 | 41.1 | 34.7 | 28.4 | 7.6 |
| TONE-CORRECTED, AS A FUNCTION O | | - | | 9 01 1 | _ | m 4 | · ~ · | 9 4 | ~ | n m | ~ | • | 8 | . | m c | , 6 |
| · - i | E SOURCE/SUE F-106 NOISE AF 32A-17 GROUND RUNUF | | 103.5 101.2 98.9 | 966 | 6 | 96 | 9 0 | 73. | 69 | 9 6 | 53 | 4 | 4 | 37 | 300 | 2 |
| E E | | DISTANCE (FEET) | 200 250 315 | 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 900 | 1000 | | 2568 | 3150 | | 6300 | 9060 | 0 | 9 | 9 9 | |
| TABLES | NO IN | 01ST ()FE | NNM | - W 4 | 9 40 | 3; | 191 | 2 2 | 37 | 3 5 | 3 | 8 | 1000 | 12500 | 16000 | 22.0 |

| SOURCE/SUBJECT: (OPERATION:) HETEOROLOGY: = 59 F) ARROLING SOURCE/SUBJECT: (OPERATION:) HETEOROLOGY: = 59 F) ARROLING SOURCE/SUBJECT: (OPERATION:) HETEOROLOGY: = 59 F) OPERATION: (OFFICIAL SUBJECT:) HERD = 70 X M | MOTES SUNCECSUBJECT: (OPERATION: AF 32A-17 AF 32A-17 AF 32A-17 ARCITE ENGINE (CROUND RUNUP (SUPPRESSED) (SINGLE ENGINE (CROUND RUNUP (SUPPRESSED) (SINGLE ENGINE (CROUND RUNUP (SUPPRESSED) (CROUND RUNUP | TABLES A | A-WEIGHTED AS A FUNCT | EIGHTED OVE A FUNCTION | RAL | SOUND NGLE A | ב ב | VEL (DBA) | FROM SC | Sounce | | | | | | | |) IDENTIF) OMEGA | IDENTIFICATION: OMEGA 0.2 TEST 77-778-001 | 10N: | |
|--|--|--------------------|----------------------------------|---------------------------|-------|-----------------|----------|-----------|---------|--------|--------------|---|------------------------------|-------------------|--------------|----------|------|---|---|----------------------------|-----------------------|
| THE FEET) 1 10 20 30 40 50 60 70 80.0 100 110 120 130 140 150 160 150 150 150 150 150 150 150 150 150 15 | DISTANCE OLISTANCE O | NOISE AF | CCE/SUC NOISE -17 RUNUÉ | | ESSOR | | | | NGINE | SUPPRE | SSED | 30 | EOROL TEMP BAR TA N | SSIE | #29. 0 DB | FHX | | ALIRC OPER OPER DES DES DES DES DES DES DES DES DES DES | RAFT CATION CILLE VER | CODE 7 CODE 0 ERSION | 778 00116 0 A) |
| 89.0 87.6 88.9 91.4 89.9 91.4 91.7 92.1 91.7 88.4 88.2 87.2 87.2 86.8 88.9 88.9 88.9 88.9 88.9 88.9 88.8 88.9 88.4 88.1 85.6 87.0 88.6 91.0 88.6 86.0 85.1 85.6 87.0 88.6 91.0 88.6 86.0 85.1 85.6 87.0 88.6 91.0 88.6 86.1 85.1 85.6 87.0 88.6 87.0 88.6 81.0 81.0 81.0 81.0 81.0 81.0 81.0 81.0 | 89.0 87.6 88.9 91.4 89.9 91.4 91.7 92.1 91.7 88.4 88.2 86.8 86.9 85.5 86.8 89.3 87.8 89.2 88.6 91.0 88.6 86.2 86.0 86.2 86.0 84.2 85.6 81.1 82.5 84.8 83.3 84.8 84.2 85.6 81.1 81.8 81.5 80.4 81.5 80.4 87.8 86.4 81.5 80.4 81.5 80.4 87.8 86.4 81.5 80.4 81.5 80.4 87.8 81.2 85.6 81.1 81.8 81.5 80.4 87.8 81.2 85.6 81.1 81.8 81.5 80.4 87.8 81.2 85.6 81.1 81.8 81.5 80.4 87.8 81.2 85.6 81.0 81.5 80.4 87.8 81.2 87.2 75.6 77.8 77.2 77.6 77.2 78.5 77.0 77.9 81.5 77.6 77.7 77.0 87.2 77.6 77.2 78.6 77.0 77.9 77.9 77.0 87.2 77.6 77.2 78.6 77.0 77.9 77.9 77.0 87.2 77.6 77.0 77.9 77.0 87.2 77.6 77.0 77.9 77.0 77.9 77.0 77.0 77.0 77.0 | DISTANCE (FEET) | | • | 20 | 96 | 9 | 5.0 | 0.9 | 82 | ANGLE | 1 - 0 | (EES) | 110 | 120 | 130 | 146 | 150 | | 170 | 2 |
| 86.9 86.5 86.8 89.3 87.8 89.2 80.6 90.0 86.6 86.2 86.0 85.1 85.0 84.6 85.8 85.3 86.7 86.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 | 86.9 45.5 86.8 89.3 87.8 89.2 88.6 90.0 88.6 86.2 86.0 86.9 86.9 85.9 85.9 85.9 85.9 85.9 85.9 85.9 85 | 208 | 89.0 | 87.6 | 86.9 | | é | 91.4 | 90.7 | 92.1 | 99.7 | 88.4 | 86.2 | | 87.2 | 86.8 | 88.0 | 87.5 | 6 | ~ | 82.2 |
| 82.6 81.1 82.5 84.8 83.3 84.8 84.2 85.6 84.1 81.5 81.5 81.5 81.6 81.6 81.6 81.5 81.6 81.5 81.8 81.5 81.8 81.5 81.8 81.5 81.8 81.5 81.8 81.5 81.8 81.5 81.8 81.5 81.8 81.5 81.8 81.5 81.8 81.5 81.8 81.8 | 82.6 81.1 82.5 84.8 83.3 84.8 84.2 85.6 84.1 81.8 81.5 78.7 78.3 76.7 78.1 76.6 77.9 80.2 78.6 81.0 79.6 81.0 79.5 77.3 76.7 75.6 77.9 80.2 78.6 81.0 79.6 81.0 79.5 77.3 76.7 75.6 77.9 74.2 75.6 77.8 76.2 77.6 77.2 78.6 77.0 74.9 74.9 74.2 77.0 74.8 75.2 75.6 77.0 74.8 76.2 77.9 74.9 74.2 77.0 74.8 75.2 75.6 77.0 74.9 74.2 77.0 74.8 75.2 75.6 68.0 68.8 68.8 68.8 68.8 68.8 68.8 68 | | 86.9 | 85.5 | 86.8 | | ~ 6 | 89.2 | 86.6 | 90.0 | 88.6 86.4 | 86.2 | 86.0 | | 85.0 | 84.6 | 85.8 | 85.3 | ~ 5 | rv 0 | 84.0 |
| 80.4 78.9 80.2 82.5 81.0 82.4 81.9 83.3 81.8 79.6 77.2 76.1 75.6 77.5 76.0 77.5 77.6 77.5 77.6 77.5 77.6 77.5 77.7 75.6 77.6 77 | 80.4 78.9 80.2 82.5 81.0 82.4 81.9 83.3 81.8 79.6 77.3 77.5 77.3 76.7 75.6 77.9 80.2 77.8 76.2 77.6 77.2 78.6 81.0 79.5 77.3 76.7 75.6 77.9 77.2 78.6 81.0 79.5 77.3 76.7 75.6 77.9 77.2 77.6 77.2 78.6 77.0 74.9 74.2 77.3 74.5 77.3 74.9 74.2 73.4 71.8 73.2 75.7 71.0 72.4 72.2 73.6 71.0 69.2 67.1 66.0 68.2 68.0 68.0 68.2 68.0 71.0 69.2 67.1 69.2 67.1 66.0 65.2 66.0 68.0 67.2 65.3 66.3 66.3 66.3 66.3 66.3 66.3 66.3 | | 82.6 | 81.1 | 82.5 | | 'n | 84.8 | 84.2 | 85.6 | 84.1 | 81.8 | 81.5 | | 90.4 | 80.0 | 81.2 | 600 | . ~ | | 75.6 |
| 78.1 76.6 77.9 00.2 73.6 80.0 79.6 81.0 79.5 77.3 76.7 75.6 75.0 76.3 76.1 77.4 77.4 75.6 77.9 70.2 77.9 70.2 77.5 77.5 77.5 77.5 77.5 77.5 77.6 77.4 77.6 77.5 77.6 77.5 77.6 77.5 77.6 77.5 77.6 77.6 | 78.1 76.6 77.9 100.2 78.6 10.0 79.6 10.0 79.5 77.3 76.7 75.4 71.6 75.6 77.9 70.7 77.9 70.7 77.9 77.5 77.6 77.2 78.6 77.9 77.3 76.7 73.4 71.6 73.2 75.7 71.0 72.4 77.2 78.6 77.9 74.9 74.2 78.6 77.9 74.5 77.9 74.2 78.6 77.9 74.9 74.2 78.6 17.0 69.3 70.6 72.7 71.0 72.4 72.2 73.6 71.9 69.2 67.1 66.0 68.2 66.6 68.0 70.6 68.2 69.6 69.6 71.0 69.2 67.1 66.0 62.5 60.8 62.2 64.1 62.2 65.6 63.8 65.1 63.2 64.3 64.3 65.1 65.0 65.3 66.3 66.3 66.3 66.3 66.3 64.3 65.1 65.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 7 | | 80.4 | 78.9 | 89.2 | | ä | 95.4 | 61.9 | 83.3 | 81.8 | 9.62 | 79.2 | 78.1 | 78.0 | 77.5 | 78.8 | 78.5 | σ | ۰ | 73.3 |
| 73.4 71.8 73.2 75.3 73.6 75.0 74.8 76.2 74.5 72.4 71.6 71.6 71.6 71.6 71.4 69.7 71.4 71.0 72.3 73.6 75.0 74.8 75.2 73.6 71.9 69.8 68.8 67.8 67.6 66.9 68.3 68.3 69.5 68.6 68.0 68.1 71.0 72.4 72.2 73.6 71.0 69.2 67.1 66.0 64.7 63.9 65.4 65.4 65.4 66.5 68.6 68.0 68.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 67.1 68.0 64.7 63.9 65.4 65.4 65.4 65.6 65.6 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67 | 73.4 71.6 73.2 75.3 73.6 75.0 74.8 76.2 74.5 72.4 71.6 71.0 69.3 70.6 72.7 71.0 72.4 72.2 73.6 71.9 69.8 69.8 68.8 68.2 66.6 68.0 70.6 68.2 69.6 69.6 71.9 69.2 67.1 66.0 68.2 66.5 68.0 70.6 68.2 69.6 69.6 71.9 69.2 67.1 66.0 62.5 60.8 65.3 66.3 66.3 66.3 66.3 66.3 66.3 66.3 | | 78.1 | 76.6 | 77.9 | | å, | 80.0 | 79.6 | 81.0 | 79.5 | 77.3 | 76.7 | 75.7 | 75.6 | 75.0 | 76.3 | 76.1 | . | . | 20.07 |
| 73.4 71.8 73.2 75.3 73.6 75.0 74.8 76.2 73.6 71.9 69.8 68.8 67.6 66.9 68.3 68.3 69.5 71.0 72.4 72.2 73.6 71.9 69.8 68.8 67.8 67.6 66.9 68.3 68.3 69.5 68.2 68.0 68.3 71.0 72.4 72.2 73.6 71.9 69.8 68.8 67.8 67.8 66.9 68.3 68.3 69.5 68.6 68.3 68.2 68.3 68.2 68.0 68.3 67.2 68.3 68.3 68.3 68.3 68.3 68.3 68.2 68.3 68.3 68.3 68.3 68.3 68.3 68.3 68.3 | 73.4 71.8 73.2 75.2 73.6 75.0 74.8 76.2 74.5 72.4 71.6 71.6 70.8 69.8 71.6 69.3 70.6 72.7 71.0 72.4 72.2 73.6 71.9 69.8 69.8 68.8 68.2 68.0 71.0 68.2 69.6 69.6 71.0 69.2 67.1 66.0 68.2 68.9 67.2 69.6 69.2 67.1 66.0 69.2 67.3 66.3 66.3 66.3 66.3 66.3 66.3 66.3 | | 0 . 0 | 7 . | | | å | • | • | 0 | : | n • • • • • • • • • • • • • • • • • • • | 7.4 | 7.6 | 9 | *** | | 9 0 | , | 0 | 600 |
| 70.6 69.3 70.6 72.7 71.0 72.4 72.2 73.6 71.9 69.8 60.8 67.8 67.6 66.9 60.3 60.3 69.5 69.5 68.2 66.6 66.0 71.0 69.2 67.1 66.0 66.8 67.8 67.8 66.9 66.3 60.3 69.5 65.6 65.8 65.8 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 67.1 66.0 64.7 63.9 65.4 65.4 65.4 65.6 65.6 65.3 63.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 65.3 67.2 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 | 70.6 69.3 70.6 72.7 71.0 72.4 72.2 73.6 71.9 69.8 60.8 68.8 68.2 66.6 68.0 70.6 68.2 69.6 69.6 71.0 69.2 67.1 66.0 68.2 66.5 68.0 70.0 68.2 69.6 71.0 69.2 67.1 66.0 62.5 60.8 62.2 67.2 65.3 68.7 65.3 66.3 66.3 66.3 66.3 66.3 66.3 66.3 | | 73.4 | 71.8 | 73.2 | | | 75.0 | | 76.2 | \$ | 72.4 | 71.6 | 70.6 | 70.4 | ~ | 71.0 | 71.0 | m | • | 65.9 |
| 68.2 66.6 68.0 70.0 68.2 69.6 69.6 71.0 69.2 67.1 66.0 64.7 63.9 65.4 65.4 66.6 68.0 65.3 67.2 66.5 66.0 64.7 63.9 65.4 65.4 66.6 65.5 65.3 67.2 66.3 67.1 66.0 64.7 61.9 67.3 67.4 65.4 65.6 65.5 67.2 67.3 67.2 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 | 68.2 66.6 68.0 70.0 68.2 69.6 59.6 71.0 69.2 67.1 66.0 68.2 66.6 68.1 70.0 69.2 67.1 66.0 65.5 67.2 66.3 67.2 66.3 67.2 66.3 66.3 66.3 67.3 67.2 65.3 67.2 66.3 66.3 66.3 67.3 67.2 66.3 67.2 66.4 65.2 66.3 67.2 67.3 67.3 67.3 67.3 67.3 67.3 67.3 67.3 | | 70.8 | 69.3 | 70.6 | | 71.0 | 72.4 | | 73.6 | 6 | 69.8 | 68.8 | 67.8 | 9.79 | | 68.3 | 68.3 | w | _ | 63.1) |
| 65.5 63.9 65.3 67.2 65.3 66.7 66.9 68.2 66.3 64.3 62.9 62.0 61.7 61.9 62.3 62.4 63.6 63.8 62.5 66.3 64.3 62.9 62.0 61.7 61.9 62.2 62.4 63.6 63.8 62.1 63.2 61.1 59.7 58.8 58.6 57.6 59.1 59.2 61.3 59.3 59.3 59.3 59.3 59.3 59.3 59.4 59.3 59.4 59.3 59.4 59.3 59.4 59.3 59.2 59.8 59.3 59.2 59.8 59.3 59.2 59.8 59.3 59.2 59.8 59.3 59.2 59.8 59.3 59.2 59.8 59.3 59.2 59.8 59.8 59.3 59.2 59.8 59.8 59.8 59.8 59.8 59.8 59.8 59.8 | 65.5 63.9 62.3 67.2 65.3 66.7 66.9 68.2 66.3 64.3 62.9 62.5 66.3 64.3 62.9 62.5 64.3 62.9 62.5 64.3 62.9 62.5 64.3 62.9 62.5 64.1 59.7 62.8 62.2 64.1 59.7 63.8 63.2 63.8 65.1 63.2 61.1 59.7 59.8 63.8 63.8 63.8 63.2 61.1 59.7 57.8 57.8 57.8 57.8 57.8 57.8 57.8 57 | | 68.2 | 9,99 | 68.0 | | 68.2 | 69.6 | | 71.0 | ď | 67.1 | 66.0 | 6,49 | 2.49 | . | 65.4 | 65.4 | | N. | 60.2) |
| 55.5 53.6 55.4 61.7 56.8 610.7 56.8 610.2 63.5 55.4 55.1 55.3 55.4 55.4 55.3 55.4 56.1 55.7 55.7 55.7 55.7 55.8 55.8 55.8 55.8 | 55.5 57.6 55.4 6.6 5.7 5.8 6.6 5.6 6.5 6.5 6.5 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5 | | 65.5 | 63.9 | | | ່າ | 66.7 | | 68.2 | ∾ (| 64.3 | 62.9 | 62.0 | 61.7 | α. | 62.3 | 62.4 | , و | ٥, | 57.2 |
| 55.5 53.6 55.1 57.0 55.1 56.4 57.0 58.3 56.3 54.0 52.1 51.5 51.2 50.4 52.1 52.0 53.0 52.1 51.5 51.5 51.5 51.6 52.1 52.0 53.0 52.0 53.0 52.0 53.0 52.0 52.0 53.0 52.0 53.0 52.0 52.0 52.0 52.0 52.0 52.0 52.0 52 | 55.5 53.6 55.1 57.0 55.1 56.4 57.0 56.3 56.3 56.3 56.0 52.1 51.6 49.7 51.6 52.3 52.9 54.3 51.6 49.6 47.6 47.6 47.6 45.3 46.5 54.6 45.3 51.6 49.8 47.6 47.6 45.1 41.6 42.6 44.9 47.2 47.2 45.3 43.2 43.2 43.1 41.4 42.6 44.0 3 42.5 43.7 44.6 45.7 43.0 41.1 38.9 38.1 38.9 38.1 39.3 40.2 41.1 38.6 35.7 34.4 34.3 32.5 33.9 38.2 33.4 34.5 35.5 36.1 33.9 32.0 29.6 23.9 22.1 23.5 24.5 22.7 23.7 24.6 23.7 23.8 22.9 24.6 23.9 24.6 16.3 17.6 18.6 18.6 18.4 17.3 15.5 13.6 13.6 | | 20.0 | 57.5 | 500 | | 5 6 6 | 50.0 | | 61.9 | v ~ | 61.1 57.7 | 56.4 | , 0 , 0 , 0 | , n | ۰ - | 55.7 | 55.7 | ? « | | 50.00 |
| 51.6 49.7 51.6 52.9 51.0 52.3 52.9 54.3 51.6 49.8 47.2 47.2 47.1 46.2 48.0 47.9 48.9 48.9 47.2 45.3 45.2 42.7 42.6 41.8 43.6 43.6 43.6 43.6 43.6 43.6 43.6 43.6 | 51.6 49.7 51.6 52.9 51.0 52.3 52.9 54.3 51.6 49.6 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 | | 55.5 | 53.8 | 55.1 | | 55.1 | 56.4 | | 58.3 | . 73 | 24.0 | 52.1 | 51.5 | 51.2 | و. ١ | 52.1 | 52.0 | | | 46.2 |
| 47.0 45.3 46.5 48.4 46.5 47.9 48.6 49.9 47.2 45.3 43.2 42.7 42.6 41.8 43.6 43.6 43.4 44.4 44.8 43.7 44.6 45.7 44.6 45.3 43.2 42.7 42.6 41.8 43.5 39.2 38.9 39.7 43.1 41.1 38.9 38.5 38.5 38.3 37.5 39.2 38.9 39.7 38.9 37.1 38.4 39.2 38.1 39.3 40.2 41.1 38.6 35.7 34.4 34.2 33.8 32.9 34.6 29.6 29.6 29.8 33.9 34.6 34.3 32.5 33.9 35.1 23.9 35.1 23.9 35.1 23.5 22.7 23.4 23.8 22.5 23.8 22.7 28.6 29.2 28.6 29.2 28.6 29.2 28.6 29.2 28.6 29.2 28.6 29.3 38.1 23.5 22.7 22.7 23.7 24.5 47.5 48.6 48.4 49.3 49.1 49.2 49.1 49.2 49.6 49.1 44.6 44.0 44.6 44.6 44.6 44.6 44.6 44.6 | 47.0 45.3 46.5 48.4 46.5 47.9 48.6 49.9 47.2 45.3 43.2 43.2 43.1 41.4 41.4 42.6 44.6 45.7 43.1 41.1 38.9 43.2 43.2 43.1 41.4 41.4 41.4 41.1 38.9 43.2 43.2 41.4 41.4 41.4 41.1 41.1 41.1 41.1 41 | | 51.4 | 49.7 | 51.6 | | 51.0 | 52.3 | | 54.3 | • | 49.8 | 47.8 | 47.2 | 47.1 | ~ | 48.0 | 47.9 | 6 | | 42.0) |
| 43.1 44.4 42.6 44.3 42.5 43.7 44.6 45.7 43.1 41.1 38.9 38.5 38.3 37.5 39.2 38.9 39.7 38.9 37.5 38.9 39.7 38.9 37.5 38.9 39.7 38.9 37.5 38.9 38.7 38.9 37.5 38.9 38.6 37.5 38.9 38.6 37.5 38.9 38.6 37.5 38.9 37.5 38.9 38.6 37.5 38.9 38.6 37.5 38.9 38.6 37.5 37.5 37.5 37.5 37.5 37.5 37.5 37.5 | 43.1 41.4 42.6 44.3 42.5 43.7 44.6 45.7 43.1 41.1 38.9 38.9 37.1 38.4 39.9 38.1 39.3 40.2 41.1 38.6 35.7 34.4 34.3 32.5 33.9 35.2 33.4 34.5 35.5 36.1 33.9 32.0 29.6 29.3 27.5 28.9 30.1 28.2 28.3 30.3 30.7 28.8 25.9 24.6 23.9 22.1 23.5 24.5 22.7 23.7 24.6 24.7 23.2 21.4 19.3 18.1 16.3 17.6 18.6 16.8 17.6 18.6 18.4 17.3 15.5 13.6 | | 47.0 | 45.3 | 46.5 | | \$ \$ 50 | 47.9 | | 6.64 | 7 | 45.3 | 43.2 | 42.7 | 42.6 | | 43.6 | 43.4 | • | | 37.4) |
| 38.9 37.1 38.4 39.9 38.1 39.3 40.2 41.1 38.6 35.7 34.4 34.2 33.8 32.9 34.4 33.9 34.6 34.5 32.5 33.8 32.9 34.6 33.9 34.6 34.3 32.5 33.9 35.2 33.9 32.5 32.5 33.9 35.2 33.9 32.5 32.5 33.9 35.2 33.9 32.5 23.9 23.9 23.9 23.9 23.9 23.9 23.9 23.9 | 38.9 37.1 38.4 39.9 38.1 39.3 40.2 41.1 38.6 35.7 34.4 34.3 32.3 32.5 33.9 32.0 29.6 29.3 27.5 28.9 36.1 28.2 29.3 27.5 28.9 36.1 28.2 29.3 30.3 30.7 28.8 26.9 24.6 23.9 22.1 23.5 24.5 22.7 23.7 24.6 24.7 23.2 21.4 19.3 18.1 16.3 17.6 18.6 18.6 18.6 18.6 17.3 15.5 13.6 | | | 41.4 | 45.6 | | 42.5 | 43.7 | | 45.7 | - | 41.1 | 38.9 | 38.5 | 38, 3 | S. | 39.5 | 38.9 | ~ | _ | 33.2 |
| 20.7 20.7 20.1 20.1 20.1 20.1 20.2 40.6 41.1 20.0 50.6 24.4 54.6 52.9 24.4 52.9 54.4 52.9 54.4 52.9 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 | 20.5 27.5 20.4 25.5 20.1 25.5 40.5 Hist 20.6 55.6 24.4 25.5 27.5 28.9 35.2 23.4 25.5 35.5 36.3 36.1 33.9 32.0 29.6 29.3 27.5 28.9 35.0 29.5 22.7 23.7 24.6 24.7 23.2 21.4 19.3 18.1 16.3 17.6 18.6 16.8 17.6 18.6 18.6 18.6 18.6 17.5 15.5 13.6 | 0 | | , ,, | 7 0 6 | • | • | | • | • | | , | ; | , | | • | | • | | , | ^ : |
| 29-3 27-5 28-9 38-1 28-2 29-3 38-3 38-7 28-8 26-9 24-6 24-4 23-8 22-5 23-6 22-9 23-4 23-9 23-9 23-9 23-9 23-9 23-9 23-9 23-9 | 29.3 27.5 28.9 30.0 28.2 29.3 30.3 30.7 28.8 26.9 24.6 23.9 22.1 23.5 24.5 22.7 23.7 24.6 24.7 23.2 21.4 19.3 18.1 16.3 17.8 18.6 16.8 17.6 18.6 18.6 17.5 18.5 13.6 | | | 32.5 | , C | | 5 × | 34.5 | | 36.4 | ο σ | 30.0 | 20,00 | 20,5 | 900 | 28.5 | 00.0 | 28.6 |) (| | 24.2 |
| 23.9 22.1 23.5 24.5 22.7 23.7 24.6 24.7 23.2 21.4 19.3 19.0 10.2 17.0 17.6 17.0 17.5 16.1 16.3 17.6 17.6 17.6 17.6 17.6 17.6 17.5 16.1 16.3 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.6 | 23.9 22.1 23.5 24.5 22.7 23.7 24.6 24.7 23.2 21.4 19.3 18.1 16.3 17.6 18.6 16.8 17.6 18.6 18.6 18.6 18.6 18.6 18.6 17.3 15.5 13.6 | | 29.3 | 27.5 | 28.9 | | | 29.5 | 30.3 | 30.7 | ۰ « | 26.0 | 24.5 | 7 4 7 | 8 2 2 | 22.5 | 23.6 | 22.0 | . 4 | | 10.6 |
| 18.1 16.3 17.6 18.6 16.3 17.5 18.6 18.4 17.3 15.5 13.6 13.4 17.4 14.6 11.2 11.6 | 1 18.1 16.3 17.8 18.6 16.8 17.6 18.6 18.4 17.3 15.5 13.6 | | 23.9 | 22.1 | 23.5 | | : 2 | 23.7 | 24.6 | 24.7 | ۰ م | 21.04 | 19,3 | 19.0 | 18.2 | 17.0 | 17.6 | 17.0 | | . ~ | 15.2 |
| 0.14 J.17 J.17 F.14 F.16 0.16 J.74 0.17 J.75 0.14 0.17 J.75 J.75 J.75 J.75 J.75 J.75 J.75 J.7 | | _ | 18.1 | 16.3 | 17.8 | | ق | 17.6 | 18.6 | 16.4 | m | 15.5 | 13,6 | 13.1 | 12.4 | 11.1 | 11.5 | 11.2 | 9 | 3 | 11.0 |

| | | A FUNCTION OF | | ⋖ | 9 | 148 | FROM S | SOURCE | | | | | | | |) OMEGA | A 6.2 | 3-001 | |
|--|-------|------------------------------|---------|---------|------------------|---|--------|--------------|-------------|-------|---|----------------|------------------------|---|-------|--|-------------|-------------------------------------|---------------------|
| NOISE SOURCE/ F-186 NOI AF 32A-17 GROUND RU | 7225 | SUBJECT1 SE SUPPRE NUP | ESS | | 0 PERA 9 S | OPERATIONS 95% RPH SINGLE GROUND | ENGINE | (SUPPRESSED) | ESSED) | ¥ 6 | METEOROLOGY TEMP BAR PRE: REL HUM DELTA N = | PRESS HUMID | # 59 #29.92 # 70 | 2 1 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | | AIRCRAF DOPERATI PROFILE 28 NOV PAGE G | _ F-O . F-M | CODE 7 IN CODE 0 VERSION 9 | 778 00116 1 A |
| DISTANCE (FEET) | , E | 19 | 88 | ag M | 3 | 50 | 0.9 | 92 | ANGLE 80 | | (DEG4EES) 30 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 90.0 | 98.6 | 99.2 | 91.4 | 91.0 | 92.5 | 92.3 | 93,7 | 4.50 | 89.6 | 2.88 | 87.3 | 88.9 | 3.86 | 89.8 | 69.3 | | 88.5 | 0.4.0 |
| 315 | | 0 0 0 0 0 0 | 96.0 | | 9 9 9 9 | 86.1 | 99.0 | 9.68 | 88.0 | 85.4 | | 82.8 | 4.40 | 84.1 | 85.3 | 84.9 | | ? + . • . • . • . | 79.7 |
| 804 | 63.6 | 82.2 | 83.8 | 4 | 84.3 | 85.8 | 85.8 | 87.2 | 85.8 | 83.1 | | 80.5 | 82.1 | 81.7 | 83.0 | 82.6 | | 11.8 | 77.5 |
| 900 | 81.4 | 79.9 | 61.5 | 82.5 | 82.6 70.6 | 83.5 | 63.5 | 84.9 | 63°5 | 80.8 | 79.2 | 78.1 | 79.7 | 79.3 | 30.6 | 80.3 | 81.5 | 79.4 | 75.2 |
| 000 | 76.8 | 75.3 | 76.9 | 7. | 77.2 | 78.6 | 78.8 | 80.3 | 78.7 | 76.1 | 74.2 | 73.2 | 74.7 | 74.2 | 75.5 | 75.4 | | * | 70.3 |
| 400 | 74.4 | 7.2 | 74. 6 | | 7 7 7 | 76.4 | 76.4 | 77 | 26.97 | 7 2 2 | | 7 | | | 13.0 | 7.9 | | • | |
| 1259 | 71.9 | 70.3 | 2.5 | 72.7 | 72.0 | 73.6 | 73.8 | 75.2 | 73.5 | 71.0 | 58.8 | 67.8 | 200 | 68.6 | 78.1 | 70.1 | ۰ د | 6.68 | 64.9 |
| 1600 | 69.2 | 67.7 | 69.3 | | 69.2 | 7.0.7 | 71.2 | 72.6 | 70.8 | 68.3 | 56.0 | 64.9 | | 65.7 | 67.2 | 67.2 | ו ויי | 6.9 | 62.0 |
| 2000 | 66.5 | 64.9 | 9 • 9 9 | | 66.3 | 67.8 | 66.5 | 69.8 | 68.0 | 65.5 | 65.9 | 62.0 | | 62.6 | 64.2 | 64.2 | | 52.9 | 59.0 |
| 2511 | 63.5 | 5.3 | 63.5 | | 63°2 | 9.49 | 65.4 | 66.8 | 64.8 | 62.4 | 59.7 | 58.8 | | 59.4 | 61.0 | 61.0 | • | 59.5 | 55.6 |
| 3150 | 60.2 | 56.5 | 64.1 | | 59,8 | 61.2 | 62.2 | 63.5 | 61.4 | 56.9 | 56.1 | 55, 3 | | 55.9 | 57.5 | 57.5 | R | 9.99 | 52.0 |
| 9 | 56.4 | 54.7 | 56.2 | | , 50 50 50 | 57.3 | 58.2 | 59.6 | 57,3 | 55.0 | 52.1 | 51.5 | | 51.6 | 53.5 | 53.4 | | 1.7 | 47.7 |
| | 1.26 | | 21. | | 9:0 | 6.26 | 55.0 | 22.5 | 52.7 | 50.5 | 8 - 2 | 7.7 | | 2.4 | 7 ° 6 | | . | 7.1 | 45.1 |
| | * * * | 47.4 | 42.0 | 0 4 | 10.7 | 0 0 | 20.44 | 7 . J | 7 4 | 42.0 | 42. | 7 9 7 | | 44.5 | | 1002 | | 7.7 | 30.0 |
| } | | | | • | | | | | ? | • | | | | • | | 7 | | : | |
| 10000 | 38.9 | 37.1 | 38.4 | | 38,1 | 39.3 | 40.2 | 41.1 | 38.6 | 36.7 | 34.4 | 34.2 | 33.8 | 32.9 | 34.4 | 33.9 | 9 | 11.7 | 28.8 |
| 12500 | 34.3 | 32.5 | 33,9 | | 33.4 | 34.5 | 35.5 | 36.1 | 33,9 | 32.0 | 29.6 | 29, 5 | 29.8 | 26.9 | 29.5 | 26.6 | 24 | 79. | 24.2 |
| 16000 | 29.3 | 27.5 | 58.9 | 30.0 | 28.2 | 29.3 | 30.3 | 30.7 | 28.8 | 26.9 | 24.6 | 24.4 | 23.8 | 22.6 | 23.6 | 52.9 | 23.4 2 | 20.8 | 19.6 |
| 20000 | 23.9 | 22.1 | 23.5 | | 22,7 | 23.7 | 24.6 | 24.7 | 23.2 | 21.4 | 19.3 | 19.0 | 18.2 | 17.0 | 17.6 | 17.0 | r | 2.5 | 15.2 |
| | | | | | i | | | | | | | | | | | | | | |

| BLES | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 250 | PRE | SSURE | LE VEL | (08) | | | | | | | | | IDENTIF OMEGA TEST 7 | 207 | ATION: .2 778-001 | |
|-------------------------|--|----------------------|------------|----------------------|---|------|------------|--------------------|----------|-----------------------------|--|-----|-----|-----|----------------------------|------------------------------|--------------------|-------------------|
| 1 4 4 5 | SOURCE/SUBJECT: 6 NOISE SUPPRESSOR 2A-17 ND RUNUP | r SSOR | | OPERA MIL SINC | PERATIONS HILITARY SINGLE EN GROUND RU | PONE | (1) (1) | OX RPM) Ressed) | | ETEOR TEMP BAR REL | HETEOROLOGYS TEMP BAR PRESS REL HUMID | 110 | FHX | 9 9 | RAHO | ົ ຮ > ເ ດດຂ | 00E 00E SION | 776 60164 A |
| (BAND CENTER FRED (HZ) | 9 | 107 | | 020 | | 50 | | ANGL 70 8 | | GREES 0 10 | N H > 110 | 128 | 130 | 941 | 7AGE 150 | 3 9 T | 170 | 180 |
| • | • • | , <u>v</u> | . K | . 147 | | - | • • | | | | |) | 2 | 4 | • | 4 | 6 | |
| | | 86 | 8 5 | | | | . 4 | | . | . ~ |) ~ | | 2 | | 8 | 9 9 | 97 | 87 |
| 90 | 83 | | 79 | | | | _ | | 6 | 7 | ச | | 77 | | 7.8 | 79 | 40 | 92 |
| 001 | 80 | | 79 | ᆏ. | | | N (| | ~ | ~ 1 | 6 (| | 49 | | 28 | 73 | 29 | 95 |
| 125 | -1 C | 22 | 81 7 0 | | | | - | | . | ~ ~ | ~ € | | 7 8 | | 1 0 | <u> </u> | 2 2 | 2 2 |
| 500 | , C | | . . | · + | | | 4 00 | | | - ~ | · | | 7 2 | | . 2 | 8 2 | 2 2 | 5 2 |
| (250 | 85 | | 82 | | | | _ | | 9 | ~ | ~ | | 76 | | 79 | 81 | 7.8 | 2.8 |
| . 312 | 18 | | 82 | -4 | | | m | | ~ | _ | | | 92 | | 22 | 7.8 | 28 | 92 |
| 991 | 62 | 9 | | m. | | | | | . | ~ I | | | 2; | | 2 | 22 | 45 | * ; |
| 9000 | 22 | | 1 0 | 100 | 900 | 9 60 | 9 60 | 900 | 20 62 | , e | 22 | 22 | 2 2 | 2 2 | 2 % | 2 2 | 2 2 | 2 2 |
| 900 | 26 | 12 | 90 | 4 | | | | | ص ۱ | . ~ | . | | 7 1 | | 2 | 79 | 12 | Į |
| 1000 | 74 | | 79 | 4 | | | _ | | ٠ | _ | ıs. | | 11 | | 92 | 82 | 79 | 72 |
| 1250 | 72 | | 42 | | | | | | ın - | ~ | 5 | | 15 | | 15 | 77 | 25 | 69 |
| | 22 | c z | 22 | ν σ | | | ~ | | -1 U | · · | . 0 | | C X | | 2 % | € E | 2 2 | :: |
| 2500 | 9 | | 73 | | | | | | , o | . • | ٠. | | 7.2 | 2 | 2 | : | 2 | 72 |
| 3150 | 99 | | 1,4 | • | | | Ф | 79 7 | • | 60 | | | 78 | 9. | 75 | * | 75 | 70 |
| 0004 | | | 76 | Ф | 62 | | _ | ~ | 6 | 7 9 | o | | 91 | 79 | 11 | 78 | 2 | 73 |
| 2000 | 49 | | 69 | • | | | • | S. | | M . | ~ | | 72 | 72 | 69 | 7 | 2 | 99 |
| 6300 | 9 (9 (| | 29 | | - | | | ~ | | ~ | . و | | 9 | 69 | 9 | 9 | 29 | 9 |
| | 25 | 9 | 63 | ٠ | 99 | | 69 | _ _ | _ | ~ | - | | 29 | 29 | 29 | * | 29 | 20 |
| 1000 | S. | 21 | 9 | _ | m | | • | | - .* | 9 | ۰ | | 9 | 5 | 25 | 20 | 2 | 7 |
| (OVERALL | 46 | 93 | *6 | \$ | 93 | 95 | 5 | 5 76 | 93 91 | 1 91 | 1 99 | 96 | 96 | 91 | 8 | 63 | * | 93 |
| | ŧ | | | | | | | - | | | | | , | - | | | | |

| TABLES | PERCEI | PERCEIVED NOISE LEVEL | NISE LE | - | PNOB) | | | | | | | | 1 2 3 1 1 1 | | 6 6 1 9 |) IDENTI | FIC | ATIONS | |
|--|---|------------------------------|--------------------------------------|---|---------------------------------------|--|--|--|--------------------------------------|---|--|--|---|---|--------------------------------------|--|---|--|------------------------------|
| | < | FUNCTION | 5 | ANGLE | AND DIS | OISTANCE | FROM SC | SOURCE | | | | | 1 | | | TEST (| 7-7- | 77-778-001 | |
| MOISE SOL | E SOURCE/SUBJECT F-116 NOISE SUPP AF 32A-17 GROUND RUNUP | SUPPE SUPPE | JECT & SUPPRE 550R | | OPERA | RATION: MILITAR SINGLE GROUND | ATION: MILITARY POWER SINGLE ENGINE GROUND RUNUP (| R (10U% RPH) (SUPPRESSED) | Х RPH) ESSED) | | METEOROLOGY TEMP BAR PRE REL HUH DELTA N = | PRESS HUMID | # 29. # 0 B | 59 F 92 IN H 70 % | 9 ¥ | PAR PAR PAR PAR PAR | AAI OCE | CODE CODE RSION | 776 20134 |
| DISTANCE (FEET) | • | 10 | 20 | 9 <u>2</u> | 3 | 20 | 9 | 2° | ANGLE 80 | 0 g | EGREES) 100 | 110 | 120 | 130 | 146 | 150 | 168 | 170 | 180 |
| 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | 162.3 100.0 97.7 | 104. 162. 99. | | 106.3 104.0 101.6 | | 105.4 | | | | 0 1 4 0 | 100.5 100.5 98.1 | 103.4 101.1 98.7 | | 0 M T 4 | | 102.5 | 100.0 | 101.3 99.0 96.7 |
| 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | S C C C | 92.8 90.2 87.6 | 92.0 | 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 93.8 | 96.7 | | | 93.2 | 95.2 | 93.7 | 93.1 90.3 87.6 | 4.0 00 00 | 92.9 | 92.0 | | | 92.0 | 91.6 88.9 86.1 |
| 10000 10000 10000 10000 10000 10000 10000 10000 | 99 99 99 99 99 99 99 99 99 99 99 99 99 | | 86.6 77.6 73.6 | 7 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 0000 0000 0000 0000 0000 | 95.5 95.5 77.5 74.5 | 900.00 86.11 76.11 | 91.7 88.7 85.6 78.1 | 90°3 64°3 76°6 | 87.2 86.1 77.4 73.6 | 84.9 84.7 77.6 73.4 | 84.7 81.6 74.7 70.8 | 84.7 77.8 74.1 70.1 | 86.7 79.4 75.5 | 85.0 80.0 70.0 70.0 70.0 | 84.7 78.5 74.6 70.6 | 84.00 84.00 77.00 74.00 | 87.8 83.9 77.0 74.8 | 83.2 86.2 75.9 73.3 |
| 00000000000000000000000000000000000000 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 67.8 63.2 58.2 52.7 | 00000 04040 00000 | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 53.6 53.6 57.6 57.6 6 | 72.5 67.7 62.4 56.7 | 7669 6969 7069 7099 7099 7099 7099 | 72.5 67.6 62.3 56.2 | 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 666. 613. 500. 500. 500. 500. 500. | 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 666. 613 70 70 70 70 70 70 70 70 70 70 70 70 70 | 66.7 61.8 56.3 50.8 | 66.3 61.5 50.1 50.2 50.2 50.2 50.2 | 6 4 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 54.8 54.3 47.3 41.0 |
| 1000 11000 11000 11000 1000 1000 1000 | 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 45.00 36.4 20.4 | 44.7 38.9 37.5 11.5 11.5 | 46.0 39.7 24.7 12.4 | 24.6 34.2 31.4 7.8 | 47.5 41.4 34.6 27.8 | 44.5 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4 | 47.1 41.2 34.1 27.0 | 45,7 39,9 32,9 25,5 13,8 | 2000 2000 2000 2000 2000 2000 2000 200 | 20004 20004 2000 2004 | 39.2 32.6 25.2 11.8 | 36.8 29.3 19.2 9.2 | 37.8 36.2 19.6 9.1 | 38.5 31.7 20.8 9.9 | 37.6 29.6 18.1 6.5 | 43.1 35.9 26.7 10.8 | 46 322 122 12 12 14 14 | 35.0 25.5 45.7 |

84.33

| THE STATE OF THE S | (TABLE! | TONE- | TONE-CORRECTED, PERC | red, Pe | EIV | - c | DISE LEVEL | ¥ 1 | 08) | | | | | | | |) IDENTI | \rightarrow | FICATION: 6.2 77-778-881 | |
|---|--|--|---|----------------------------------|---|--|------------------------------------|--|--|---|---|--|---|--------------------------------------|----------------------------------|---|---|--|--|-------------------------------|
| TYPE TO THE TOTAL | (NOISE SO F-10 AF 3 (GROU | URCE/SI URCE/SI 6 NOI SE 24-17 ND RUNI | | SSO | | S W | | N N N N N N N N N N N N N N N N N N N | CSUPPR | IX RPH) | | ETEORG TEH BAR REL RELTA N | LOGY E | # 29° | € H× | 9 | S P P P P P P P P P P P P P P P P P P P | CRAFT RATION FILE W | 888 | 776 80104 - A |
| 101.6 102.3 105.7 107.9 146.3 110.0 110.7 100.7 110.2 1105.9 1106.0 1102.6 1107.5 1106.1 1107.7 1100.7 1100.7 1103.7 1105.5 1105.1 1104.1 1102.7 1101.3 1104.0 1104.0 1104.0 1104.7 1104.1 1105.5 1105.1 1104.1 1102.7 1104.3 1104.0 1104.0 1104.7 1104.4 1104 | (DISTANCE | - | 1 | 20 | | 3 | 20 | 09 | 7.0 | ANGL | | 100 | 110 | 120 | 134 | 140 | 158 | 160 | 170 | 190 |
| 94.9 95.3 96.7 100.6 99.2 102.9 102.0 104.0 142.4 99.1 96.5 95.7 97.6 180.2 99.2 99.2 99.2 99.8 92.8 92.8 93.1 95.6 100.8 95.2 96.8 96.8 92.8 93.1 95.6 100.8 95.2 96.8 95.2 99.8 92.8 93.1 95.6 93.4 95.5 93.8 92.2 91.8 95.2 93.8 92.8 94.3 95.5 93.8 92.8 92.8 92.8 92.8 92.8 92.8 92.8 92 | (250 (250 (315 | 101.6 99.4 97.2 | 162.3 160.0 | | 107. 105. 103. | 60 6. 1. | 110.0 107.7 105.3 | 0 1. 4 | 110.9 108.6 106.4 | N 9 N | | 106.0 103.7 101.4 | 102.8 100.5 98.1 | | | | 9 N M | 80 en 40 | 186.3 184.8 181.6 | 102. 100. 98. |
| 64.7 64.6 68.8 69.6 68.3 92.4 91.6 93.7 92.0 88.6 67.9 84.7 86.1 88.6 67.7 86.4 68.6 87.7 86.4 68.6 85.5 89.4 80.6 90.7 89.0 65.6 67.7 81.6 62.6 65.1 64.2 83.1 65.6 82.8 85.6 82.8 82.6 82.8 82.6 82.8 82.6 82.8 82.8 | 00000000000000000000000000000000000000 | 94.9 92.5 89.9 | 95.3 92.6 92.2 | | 100. 98. 95. | 99,09,09,09,09,09,09,09,09,09,09,09,09,0 | 102.9 100.5 97.9 95.3 | | 104.0 101.6 99.1 96.5 | 40.40 | | 96.9 96.4 93.7 90.9 | 95.7 93.1 90.3 87.6 | | | | | AL 40 M 40 | 99.2 | 95.8 93.2 90.5 |
| 71.6 74.9 75.2 76.2 74.6 78.1 101.2 78.5 75.0 73.4 71.6 71.5 73.2 73.0 72.3 75.2 74.9 67.6 67.6 67.6 67.8 67.2 73.0 72.3 75.2 74.9 67.6 67.6 67.8 67.8 67.8 67.8 67.8 67.8 | (1556 (1556 (1500 (2000 | 84.7 81.8 78.8 75.7 | | 88 85 79 | 0 0 0 0 0 0 0 0 | 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 92.4 89.4 86.2 82.7 | 91.6 88.6 85.4 | 93.7 90.7 87.5 | 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 888 887 878 887 887 887 887 | 87.9 84.7 81.3 | | 86.1 82.8 79.3 75.5 | 88.6 85.1 81.3 77.4 | 87.7 84.2 80.6 | 86.4 83.1 79.8 76.3 | | 88 85 76 76 86 86 86 86 | 84.8 78.5 74.9 |
| \$1.1 \$2.6 \$46.7 \$6.0 \$44.6 \$47.2 \$46.9 \$7.1 \$5.7 \$2.2 \$9.9 \$39.2 \$56.8 \$7.8 \$8.5 \$7.6 \$3.1 \$40.3 \$35.3 \$56.8 \$36.9 \$39.7 \$30.2 \$1.7 \$29.6 \$35.9 \$32.6 \$28.3 \$36.8 \$36.9 \$32.6 \$36.9 \$30.4 \$2.8 \$33.1 \$31.4 \$34.6 \$34.4 \$34.1 \$2.9 \$29.3 \$25.4 \$25.2 \$39.2 \$19.5 \$18.8 \$18.1 \$26.7 \$22.8 \$18.3 \$20.4 \$24.5 \$24.7 \$2.9 \$27.8 \$27.4 \$27.0 \$25.5 \$20.1 \$3.3 \$11.8 \$9.2 \$9.1 \$9.9 \$6.5 \$10.8 \$12.9 \$0.2 \$7.8 \$10.8 \$12.9 \$10.8 \$10. | 1 | 71.8 67.6 67.6 57.7 51.5 | | 75 65 65 65 65 65 | 76 67: 67: 86: | 74 64 64 64 74 74 74 74 74 | 7 | 73.1 68.7 63.1 57.2 | 90.7 76.0 76.0 76.0 50.1 | 70.7 74.2 69.0 63.3 56.9 | 78.0 65.6 65.5 59.7 53.2 | 73.00 60 60 60 60 60 60 60 60 60 60 60 60 6 | 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 71.5 67.8 61.7 55.9 49.7 | 73.2 68.5 57.2 51.3 | 663.0 683.0 683.0 683.0 683.0 683.0 683.0 | 72.3 66.8 62.6 57.1 50.9 | 75.0 65.0 55.0 55.0 55.0 55.0 55.0 | 74.9 65.8 59.7 56.8 | 70.9 66.6 55.7 4.8.8 |
| | 10086 (12500 (15680 (25600 | 4 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 2000 2000 2000 2000 2000 2000 2000 200 | | 3 6 8 6 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | | 44.4 24.6 27.6 4.9 8.9 | 447.0 447.0 14.0 16.4 16.4 | 44 W W W W W W W W W W W W W W W W W W | 45.7 39.9 32.9 25.9 13.6 | 348 356 366 366 366 366 366 366 366 366 366 | 23.0 23.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4 | 39.2 32.8 25.2 11.8 | 36.8 29.3 19.2 9.2 | 33.00 30.00 10.00 10.00 | 38.5 31.7 28.6 9.9 | 37.6 29.6 18.1 6.5 | 43.1 35.9 26.7 10.8 | 122.5 122.6 122.6 12.6 12.6 | 35.0 25.0 4.0 4.0 |

| SOURCE/SUB 106 NOISE 32A-17 0UND RUNUP 67.0 84.9 84.9 84.9 84.9 84.9 84.9 84.9 84.9 | RESSOR 20 20 889.6 889.6 177.3 | | 0 PERA 9 4 6 805,2 805,2 90,5 1 4 6 | RATIONS SILLIANS SILLIANS SINCE SOCOOLO SOCOOL | i www.i | | SSED)) SSED)) 9 8 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | | 2 X J Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | GENERAL SERVICE OF A SERVICE OF | | DE 776 DE 00104 DE 00104 DE 00104 DE 00104 DE 00104 DE 00104 DE 7600 D |
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| 78.5 63. 75.2 77. 73.9 75. 71.5 73. | 4 7 7 . | - | | | 4 60 16 |) 0 | . w 4 w | « | 40 4 | . m | | ٠. | 10 | | 7 40 | 76.8) |
| 73.9 75. 73.9 75. 71.5 73. 69.0 70. | 2.2 | | | ۰ | | ٥ | | | 79 | | | ۰ م | 6 | | 0 PO 1 | |
| 71.5 73. | | | | | _ | · ~ | , | . m | A 40 | T . | ۰. | H 16 | | | 76.4 | 71.9 |
| 69.0 70. | 0 74.9 | | 75.6 | | 7 | 8.6 77. | .1 73 | 9 | +1 | • | 3 72. | ~ | 71. | 74.9 | 73.8 | 69.4) |
| F. 6.7 | 10 0 | 73.8 | លំខ | 75.9 | 74.9 79 | σ, | * | .1 71. | .2 69. | 1 68.5 | | 6 69.7 | 68. | 72.3 | 71.1 | 66.6) |
| 63.7 65. | 67. | | 67.3 | | . . | 1.2 68. | 9 49 | n at | , e | n st | 6 63. | ۰. | 63. | 99 | 65.3 | 68.7) |
| 69.7 62. | | 65. | 3 | | ~ | . | * 1 | ~ | 9 | ~ | | m | 53 | 63. | 62.1 | 57.5) |
| 50.0 | 9 60.7 | | 60.8 57.1 | | ∽ ≪ | | . 7 58. | 6 57. | o 0 | 50 (*) | | 6) - | | | 58.7 | 53.9) |
| 49.6 51. | 2 52 | | : 0 | | , r | | . m | . ~ | ۰. | . • | | | 100 | 52. | 50.0 | 45.8 > |
| 45.2 46. | 6 48. | - | 8 | | | _ | ß | 6 | 6 | | | | ; | £9. | 46.4 | 41.3) |
| 41.4 42. | 9 44 6 | | * | m | 6 | 5.4 44. | ~ | ~ | rv. | - | | ~ | 39. | 1 44.2 | 41.9 | 37.1) |
| 37.3 38. | | 41. | ÷ | | ۰ | gr. | 80 | m | 6 | S. | 7 35. | • | 1 35. | 39 | 37.0 | 32.6) |
| 32.8 34. | ~ | 36. | ķ | 37.9 | _ | + | m | _ | | 9 | 9 30. | m | 0 29. | 34. | 31.7 | 27.9) |
| 16000 28.0 29.0 | 2 30.7 | 31.6 | 36.2 | .o. d | 32.0 3 | 31.9 30. | . 20. | .1 25. | . 6 25 | 200 | 1 24. | 7 25. | 24.2 | 28.2 | 26.1 | 23.1) |
| 17.2 17. | | 9 5 | i | P =0 | _ 00 | t M | . | | , r | . | , m | ۰. | 3 12 | 15. | 14.4 | 13.4) |

| | AS A F | AS A FUNCTION OF ANGL | N OF A | ושו פ | AND DISTANCE | 1.1 | FROM SOURC | w | (a a a a a a a a a a a a a a a a a a a | | | | | | | OMEGA TEST | 4 | 8.2 77-778-801 | |
|--|--|-----------------------|-------------|-------|--|--|---|------------------------------|---|-----------|---|----------------|------------------------|----------|--------|---|------------|-----------------------|---------------------|
| NOISE SOURCE/ F-106 NOI AF 32A-17 GROUND RU | E SOURCE/SUBJECT: F-106 NOISE SUPPRESSOR AF 32A-17 GROUND RUNUP | BJECT: SUPPR | ESSOR | | OPERATIONS MILITA SINGLE GROUND | ATIONS MILITARY SINGLE E GROUND F | ATIONS MILITARY POWER SINGLE ENGINE GROUND RUNUP (3 | R (1042 RPH) (Suppressed) | SSED) | 30 | NETEOROLOGY TEMP BAR PRES REL HUMI | PRESS HUMIO | = 59 =29,92 = 70 | 71 X | | AIRCRAF OPERATI PROFILE 28 NOV PAGE G | F S S S | CODE CODE RSION | 778 00104 - A |
| DISTANCE (FEET) | 0 | 100 | 0 28 | a | 3 | 25 | 69 | 78 | ANGLE 80 | (OEGREES) | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 902 | 88.1 | 88.7 | 92,0 | | 4.10 | 96.2 | 3,00 | 96.9 | 95.2 | 94.10 | | A. A. | · c | 9 | 1 7 10 | 0.00 | 92.6 | 4,10 | A7.3 |
| 250 | | 96.6 | 0 | | 80.4 | 9 4 | | 96.7 | 1 6 | 4.0 | | 86.2 | . د | 80.7 | 88.0 | A 7. A | 4.00 | 80.7 | 86.2 |
| 315 | 83.9 | 94.4 | 87.7 | , m | 87.5 | 91.8 | 90.7 | 92.5 | 90.0 | 87.2 | 86.8 | 83.9 | | 87.4 | 96.6 | 85.6 | 1 P | 87.5 | 83.0 |
| 904 | 81.7 | 82.3 | 92.6 | | 'n | 89.5 | | 90.2 | 86.5 | 6.49 | 84.4 | 81.7 | • | 85.8 | 84.3 | 83,3 | 86.0 | 85.2 | 80.7 |
| 200 | 79.6 | 90.0 | 83,3 | _ | 82.9 | 87.2 | | 67.9 | 86.2 | 82.6 | 82.0 | 79.3 | • | 82.6 | 82.0 | 80.9 | 63.7 | 82.9 | 78.4 |
| 630 | 77.3 | 77.8 | 81.1 | _ | 80.5 | 84.8 | | 85.5 | 83.8 | 80.2 | 79.5 | 76.9 | o | 80.0 | 79.5 | 78.5 | 81.4 | 80.5 | 76.0 |
| 000 | 75.0 | 15.4 | 78.7 | _ | 7 8. 1 | 82.3 | | 63.1 | 81.4 | 17.8 | 76.8 | *** | | 77.4 | 77.0 | 76.0 | 79.8 | 78.0 | 73.5 |
| 1000 | 72.6 | 73.0 | 76.3 | 77.5 | 75.6 | 79.8 | 78.8 | 80.5 | 78. A | 75.2 | 74.1 | • | 72.7 | 74.6 | 74.3 | 73.3 | 76.4 | 75.4 | 71.0 |
| 1250 | 70.1 | 70.5 | | 24.9 | 72,9 | 77.1 | ~ | 77.9 | | 72.6 | 71.2 | | 70.0 | | 71.6 | 70.6 | 73.8 | 72.7 | 68.2 |
| 1600 | 67.5 | 67.9 | 71.2 | _ | 70.2 | 74.3 | . | - | , PO | 69.8 | 68.2 | m | 67.1 | | 66.7 | 67.7 | 71.1 | 69.6 | 65.3 |
| 2000 | 64.8 | 65.2 | 69.5 | _ | 67,3 | 71.5 | ۰ | 2 | • | 6.99 | 65.0 | * | 64.1 | | 65.7 | 64.7 | 58.2 | 6.99 | 62.3 |
| 2500 | 61.7 | 62.2 | 65.4 | _ | 64.2 | 68.3 | • | _ | _ | 63.6 | 61.6 | 2 | 60.8 | m | 62.5 | 61.5 | 65.2 | 63.7 | 59.0 |
| 3150 | 58.4 | 59.9 | 62.1 | _ | 69.8 | 64.9 | 5 | | ī | 60.1 | 57.9 | • | 57.4 | • | 59.1 | 58.1 | 61.9 | 60.3 | 55.5 |
| 0004 | 54.5 | 55.3 | 58.1 | 59,3 | 57.1 | 61.0 | 59.8 | ~ | 59.1 | 55.8 | 53,9 | | 53.4 | 54.5 | 55.1 | 54.0 | 58.1 | 56.2 | 51.3 |
| 2008 | 26.5 | 51.5 | 53.0 | | 25.9 | 56.6 | 10 1 | L C 1 | m | 51.1 | 9.6 | • | 49.0 | _ | 50.7 | 49.6 | 53.6 | 51.6 | 46.8 |
| 2020 | 45.0 | 40.0 | | | ٠ م م | 51.9 | • | ۰. | ~ | 46.1 | • | | 44.3 | _ | 45.9 | 6 | 2°6 | 67.0 | 1 2.0 |
| | *1. 6 | 42.9 | 6.4.4 | _ | * * | 47.5 | * 6• 1 | 80 | 44.6 | 41.8 | 40.5 | - | 39.7 | s s | 41.2 | 40.1 | 44.5 | 42.2 | 37.4 |
| 10800 | 37.3 | 38.7 | +0.4 | - | 40.0 | 42.8 | 41.6 | 41.9 | • | 37.3 | 35.9 | 35.5 | 34.7 | 35.4 | 36.1 | 35.0 | 39.4 | 37.8 | 32.6 |
| 12568 | 32.8 | 34.2 | 35.8 | _ | 35,3 | 37.9 | 37.0 | 37.1 | m | 32.9 | 31.0 | 30.6 | 29.6 | 30.3 | 31.0 | 29.8 | 34.1 | 31.7 | 27.9 |
| 16969 | 26.0 | 29.5 | 30.7 | 31.6 | 30.2 | 32.6 | 32.0 | 31,9 | 30.4 | 28.1 | 25.8 | 25.5 | 24.1 | 24.7 | 25.4 | 24.2 | 28.2 | 26.1 | 23.1 |
| 20000 | 22.0 | 23.7 | 25.3 | _ | 24.7 | 26.9 | 26.7 | 26.4 | ~ | 22.9 | 20.3 | 20.0 | 18.3 | 18.6 | 19.4 | 16.3 | 21.9 | 20.2 | 16.2 |
| 25000 | 17.2 | 17.9 | 19.4 | _ | 16,7 | 28.6 | 29.8 | 20,3 | 3 | 17.1 | 14.5 | 14.2 | 12.3 | 12.7 | 13.3 | 12.6 | 15.4 | 14.4 | 13.6 |
| | 17.2 | F | * * ! | _ | 1 6. 7 | 9 • 82 | 28.6 | 20.3 | 3 | 17.1 | | 14.2 | 12.3 | 12.7 | | 13.3 | 12 | 15.6 | 15.6 15.4 |
| +++++++++++++++++++++++++++++++++++++++ | | | | | , | | | | | | | | ****** | | 1111 | | | | i |

| | DIS | DISTANCE = | 250 | | | | | | | | | | |) ONEGA | ONEGA 8.2 TEST 77-778-00 | 77-778-001 | 1 |
|------------------------|---------------------------|------------|---|--------|----------------------------------|-------------------------------|---|------|---------------|--------------|-----|--------------------------|----------|--|--|------------|--------------------------|
| NOISE SC FILE AF | 000000 000000 32A-1 | C SUB. | SE SOURCE/SUBJECT: F-196 NOISE SUPPRESSOR AF 32A-17 GROUND RUNUP | 40 | PERATIONS MILITARY SINGLE ENC | RY POWER ENGINE RUNUP (| XY POWER (188% RPM) ENGINE RUNUP (SUPPRESSED) | | | PRES HUMI | | 59 F 92 IN HG 70 X | | A PROFINE CONTROL OF C | AIRCRATION CODE OPERATION CODE PROFILE VERSION 28 NOV 79 PAGE J4 | A COD | E 776 E 86184 ON A |
| ! ! ! | | | | d d | *PNLT | | | A=AL | | | | T=ALT | - | | | | |
| | | • | • | • | | | | | | | ٠ | , | | • | | • | <u> </u> |
| | 9 (| • • | • | • | • | • | • | • | • • • • | • | • | • : | • | • | • | • • | |
| | - - | • • | • • | • • | - • | • • | • • | | • • | | • • | × | | ٠ . | _ | • • | |
| | 20 (| • • | • • • | • (| - ' | • | • • | • | • | | • | ∢ | - | • | ۵ | • | ~ - |
| | 98 | • | • | • | • | • | • | • | • | • | • | • | AT | • • | • | • | • |
| | 3 | • • | •• | • • | . • | | • • | | • • | | • • | | •× | • • | ۵ | • • | |
| • | | • | • | • | - | | • | • | • | | • | | : | • | | • | ~ |
| ¢ Z | 2 | • • | • • | • • | . • | • - | • • | | • • | | • • | | ξ • • | • • | | | |
| ـ و | 9 | • | • | • | • | • | • | • | • | • | • | • | • AT• | • | • | | • |
| J W | 70 (| • • | • • | • • | - • | • • | • • | ٠. | • • | | • • | | ⊢ | • • | | ٠. | |
| ٠ | | • | • | • | • | _ | • | • | • | | • | | • | • | | • | _ |
| 4 Z | - - | • • | • • | • • | | | • • | | • • | | • • | | - | • • | | • • | |
| • | 8 | • | • • • • • | • | • | • | • • • • • • | • | • | • | • | AT | • | • | • | • | • |
| w c | , 90 1 | • • | • • | • • | - • | | • • | • | • • | | • • | * | • | • • | ٥ | • • | |
| | | • | • | • | . • | | • | | • | | • • | • | . • | • | • | • | • ~ |
| |) 011 | • | • | • | • | | • | • | • | | • | × | • | • | ۵ | • | ۰. |
| | 120 (| • | • • • | • | • | • | • | • | • • | • | • | . AT. | • | • | 9 | • | • |
| | 130 | • • | • • | • | • | • | • | • | • | | • | • | •• | • | • | • | - |
| | 3 | • • | • • | • • | - - | | • • | | • • | | • • | đ | | • • | • | • • | - ~ |
| - | 140 (| • | • | • | • | | • | | • | | • | A | • | • | ۵ | • | _ |
| • | 150 (| • | • | • | • | • | • | • | • | • | • | 1 | • | • | 4 | • | - 7 |
| | | • | • | • | , | | | • | • | • | • | • | • | • | | • | ; ~ |
| |) 191 | • • | • • | • • | - ' | | • | • | • | | • | ⋖ | . | • | ۵. | • | |
| • | 170 (| • | • • | • | • | | • • | • • | • • | | • • | • | | • • | Q. | • • | . ~ |
| | 188 | • | • | • | • | • | • | • | • • | • | • | AT. | • | • • | • | • • | -: |
| | - - | • | • | • | | | | • | • | | | | | • | | • | - 1 |
| | | 7 | 28 | 8 | 7 | • | • | • | • | | : | | | • | | • | |

| TABLES | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUNC BAND 250 |) PRE FEET | SSURE | SURE LEVEL | (08) | | | | | | | | | IDENT OMEG/ TEST | DENTIFICATIONS ONEGA 8.2 TEST 77-778-00 | CATION: 8.2 -778-80 | |
|---|--|----------------------|---------------|--------------|--|-----------------|----------------------|---------------|---------|-------------------------------------|--|--------------|----------------------|------------|--------------------------------------|---|---------------------------|---------------------|
| NOISE F-18 AF 3 GROU | SOURCE/SUBJECT: 6 NOISE SUPPRESS: 2A-17 ND RUNUP | SSOR | | OPER STER | PERATION: AFTERBURNER SINGLE ENGIN GROUND RUNUP | ENGINE RUNUP | POHER IE (SUPP | SS | | METEO TEM BAR AEL OELTA | TEMP TEMP BAR PRESS REL HUMID | 29. | 79 F 70 K 08 K | 2 | AIRCRA OPERAT PROFIL 28 NOV | KUN 05 AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE CS | C00E C00E SRSTO | 776 60163 N A |
| BAND CENTER FREQ (HZ) | • | 3 | 20 | 8 | 7 | 20 | 9 | ANG 70 | 6LE (DE | EGREE: | S) 00 11(| 12 | 13 | 47 | 0 150 | 160 | 170 | 2 |
| 96 | 86 | 87 | 87 | 87 | 96 | 85 | 83 | Q, | | • | o | 60 | * | • | | | | 91 |
| 89 | 93 | 16 | 6 G | 69 | 88 | 96 | 87 | ~ | | | - | 0 | | ~ | | | | 46 |
| | \$ 0 € | 0 Q | * C | 5 6 2 6 | 2 6 | 20 4 20 11 | 8 4 4 | c | | | - 0 | • | | ው € | | | | 60 e |
| 125 | 9 9 | 3 2 | 9 6 | 3 3 | 9 (2 | £ 8 | 4 0 | , 60 | | | | , 4 0 | o e o | . | | | | 9 0 |
| 160 | 98 | 82 | 83 | 40 | 96 | 96 | 83 | | | | | 9 | | -4 | | | | 81 |
| 200 | æ ; | Ž : | 9 | % : | 9 : | 90 | 80 6 70 1 | 83 | 82 | 82 | 62 | 9 62 | - | 77 6 | 78 | 79 | * | 20 |
| 315 | | 9 6 | 9 0 | 8 6 5 7 | 9 0 | 0 0 | 87 | -1 FC | | | | . e | | r o | | | | 9 M |
| 00+ | 81 | 82 | 99 | 96 | 83 | 88 | 69 | 4 | | | | 6 | | | | | | 82 |
| 200 | 10 | 18 | 40 | * | 92 | 87 | 87 | m | | | - | 7 | | • | | | | 7.8 |
| 9 9 | 4 6 | 90 | 26 | 6 0 4 | ۳, و و | 80 e 50 c | . | . | | | | ۰ ۱ د د | | . | | | | 76 |
| | 6 6 | . e |) E | 2 6 | 91 | A 1 | 7 C | ⇒ ≪ | | | | | | r d | | | | * * |
| 1250 | 92 | 26 | 77 | 91 | 82 | 80 | 81 | Φ. | | | | . ~ . | - ' | | | | | 72 |
| 1600 | 76 | 77 | 7.8 | 81 | 81 | 97 | 80 | • | | | | 2 9 | | . | | | | 73 |
| 2000 | 75 | 92 | 91 | 80 | 29 | 82 | 82 | rv i | | | _ | ~ | | 10 | 92 | | | 72 |
| 2458 | 22 | 5 2 | 22 | 9 . | 2 6 | 2 C | 101 | . | | ם ע | N e | ۰ د | | • • | | | | 72 |
| 0004 | * * | 22 | . 6 | 9 6 | 3 c | 7 K | 6 6 | | | , r | | . ~ | | ٠ - | | | |) M |
| 2000 | 99 | 69 | 12 | 11 | 78 | 77 | * | | | . ~ | · 100 | 9 | | 4 | | | | 99 |
| 6388 | † 9 | 3 | 99 | 72 | 7.4 | 75 | 79 | 9 | | • | 6 | 9 | _ | | | | | 63 |
| 3 | 9 | 9 | 63 | 29 | 69 | 69 | 99 | - | | _ | 9 | • | 9 | 3 | | | | 62 |
| 10000 | 29 | 28 | 9 | 63 | 3 | 99 | 63 | • | _ | - | H | ص ح | - | & ? | | | | 70 |
| OVERALL | 96 | 8 | 26 | 46 | 26 | 96 | 16 | 93 | 95 | 93 | 35 | 91 9 | 6 2 | 8 | まっ | 95 | 100 | 98 |
| 100000000000000000000000000000000000000 | | | | | | | | | | | | | * | | | ***** | | |

| (TABLES | PERCEIVED | | NOISE LI | LEVEL (| PN0B) | | ! ! ! | | | ! ! ! | | | | | ! ! |) IOENTI | DENTIFICATION | TIONE | |
|-----------------------|--------------------------------------|-----------------------|--------------|-------------|---------------|--|--------------|----------------------|----------------------|---|-------------------|------------------------------------|--------------|-----------------------|--------|---|-----------------------------|------------------------|---------------------|
| | AS A | AS A FUNCTION | P | LAS I | AND DIST | STANCE | FROM S | SOURCE | | | | | | | | TEST | T 77-7 | 77-778-001 | |
| NOTE SEE | OURCE/ OG NOI 32A-17 UND RU | SUBJECT B SE SUPPR | ESSOR | | OPER | RATION: AFTERBURNER SINGLE ENGIN GROUND RUNUP | | POWER E (SUPPR | OMER (SUPPRESSED) | | 16 2 | EOROLOGY: TEMP BAR PRESS REL HUMIO | 29.9 | 600 N X X 1 1 6 | ی | P C C C C C C C C C C C C C C C C C C C | RAFT ATIO TLE OV 7 | CODE CODE ERSION | 778 90163 - A |
| (DISTANCE ((FEET) | 9 | 3 | 20 | e R | 3 | 20 | 9 | 02 | ANGL 80 | | EGREES) | 110 | 120 | 130 | 146 | 150 | 160 | 170 | 180 |
| (250 (250 315 | 104.9 | 103.2 | 106.8 | | 110.9 | 110.4 | 108.6 | 104. 101. | 107.3 | 105.4 | 105. | 104.3 | 9 P 0 | 105.2 | 103.5 | | | ~ | 103.2 |
| | 96 | | 9.66 | 162 29. | 163.0 | 103.3 | 101.0 | 9 | . + 0 | 98.5 | 66 | 4.76 | * | 0.96 | 9 9 9 | | | 101.9 | 96.3 |
| 908 | 93.5 | | 94.6 | 96. | 98.5 | 98.1 | 96.8 94.1 | 92.1 89.6 | O 12 0 | 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 93.9 91.2 | 92.3 89.6 | 92.1 | 92.7 | 93.3 | | 94.2 | 96.7 | 91.5 |
| 1000 | 87.9 | 87.7 | | 91. | 92.4 89. b | 92.4 | 91.6 | 86.9 | 90.0 | 86.2 | 88.8 | 86.7 | 86.0 | 86.6 | 67.1 | 87.6 | 88.5 | 91.1 | 85.9 |
| 1630 | 81.5 | | | 9 6 | 3 4 | 86.0 | 65.7 | 81.3 | 80 40 | 82.0 | 81.8 | 80.3 | 79.5 | 79.6 | 80.1 | 80.9 | 81.8 | 84.7 | 79.9 |
| 2500 | 74.6 | | | 77. | 78.0 | 79.0 | 78.8 | 74.3 | 76.6 | 74.7 | 74.0 | 72.5 | 71.8 | 71.8 | 71.8 | 72.9 | 74.2 | 77.1 | 72.7 |
| 7000 | 66.0 | 65.5 | | 9 % | 9.4 | 76.3 | 69.0 | 60.8 | 67.5 | 60.00 | 54.3 | 62.9 | 62.9 | 62.3 | 62.0 | 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 65.2 | 67.9 | 63.1 57.4 |
| 6320 | 55.6 51.1 | | 57.2 | 58.3 | 56.7 | 60.1 55.8 | 59.7 | 55.5 | 52.7 | 56.7 | 52° 60° 60° | 51.4 | 52.1 | 51.4 46.5 | 50.6 | 52.7 | 54.8 | 57.5 52.6 | 51.7 |
| 10000 | 46.0 | | | 4 | 4.9 | 51.1 | 50.0 | 40 | 9 6 | 45.3 | 40.9 | 40.6 | 42.0 | 9.04 | 39.5 | 41.4 | 43.6 | 47.1 | 41.4 |
| 16000 | 33.7 | 32. | | 9 9 | 37. | 39.5 | 39.6 | 34.6 | 35.8 | 32.6 | 26.7 | 26.7 | 28.8 | 27.1 | 24.9 | 28.1 | 30.2 | 33.5 | 28.4 |
| 26300 (25000 | 26.1 10.1 | 24.5 | 28.7 16.3 | 29. 18.0 | 29°4 | 32.1 23.6 | 32.2 | 27.7 15.8 | 29.2 18.4 | 25.6 13.8 | 15.5 4.3 | 15.4 | 19.4 10.0 | 15.8 4.5 | 13.3 | 17.0 5.8 | 20.4 10.6 | 25.7 12.6 | 20.1 |
| • | | | | | | | | | | | | | | | | | | | |

| | m m | | W W C | - | mo | ~ | | 2 1 | | | - | Š | ٠, د | | 5 | ٠ - | , m | - | 7 | |
|---------------------------------------|---|-------------------|---|----------|--------|------|---|-----------|------------|------|-----------|-------|-----------|------------|------|---------|------|-------|------|-----|
| 4 | 778 00183 N A | 97 | | • | 95 | | | : 1 | | | | | 3 | | ģ | | | 28. | | |
| FION : 2 78- 6 81 | CODE CODE FRSION | 170 | 110.3 | 103.4 | 160.8 | 95.5 | • | 700 | 86.2 | 82.6 | 78.6 | 74.3 | 69.1 | 58.1 | 52.9 | 47.1 | 41.3 | 33.5 | 25.7 | 4.0 |
| ENTIFICATIONEGA 8.2 EST 77-778- | TAFT NTION ILE V V 79 | 160 | 9.20 | | ~ 4 | 1 | • | 7.60 | 8 60 | 79.2 | 75.4 | 71.2 | 2 9 5 | A 4 4 | 20.0 | A. 5. 6 | 37.4 | 30.2 | 20.4 | 4 |
| IDENTION OHEGA TEST | P S S S S S S S S S S S S S S S S S S S | 150 | | • • | σ- | . ~ | , | H 0 | 62.3 | ~ | m | • | ~ (| | | 4 | | 28.1 | | • |
| | | | 10.01 | | ~ 0 | ۰. | | 0 4 | | 5 | 10 | • | | | . 6 | | . ~ | • | m | |
| | å | 3 | 107. | | | | | . | | | | _ | | . _ | | | 3 | 1 24. | | |
| | 59 F 70 X X | 130 | 107.0 | 99.66 | 97. | 75 | | 00 | 91. | 77.7 | 73. | 68. | 63. | 700 | 9 | 9.04 | 34. | 27.1 | 15. | |
| | # 29. | 120 | 106.4 | 88.8 | 96.7 | 91.1 | | 7.0 | 81.4 | 77.7 | 73.7 | 69.5 | *** | , v | 47.9 | 42.8 | | 28.8 | 19.4 | • |
| | PRE SS HUMIO | 110 | 10% 3 102 1 | | 96.9 | 89.6 | , | 000 | 80.0 | 76.6 | 72.5 | 67.9 | 659 | 2,0 | 46.0 | 48.6 | 34.2 | 26.7 | | • |
| | 1 W - | DEGREES) | 9.201 | | 96.5 | 91.2 | | 200 | 91.8 | | | | 64.3 | | | 6.64 | 34.3 | 26.7 | 15.5 | • |
| | 2000 | • ~ ~ | 9 | 99.66 | 97.4 | 92.2 | | * · · · | 83.3 | 79.8 | 75.9 | 71.6 | 66.5 | 22.0 | 50.8 | F 5 5 4 | 6 | 32.6 | ŝ | |
| | | ANGLE 80 | | ٠. | m @ | - | | 97.0 | 85.2 | 81.7 | 77.9 | 73.6 | 68.6 | 57.7 | 52.9 | 6 B. B. | 42.3 | 35.6 | 29.5 | |
| SOURCE | OWER (Suppressed) | 67 | 105.3 | | | | • | 85.5 F | 95.6 | 79.5 | 75.6 | 71.5 | 56.8 | 56.0 | 51.5 | 46.4 | 40.9 | 34.6 | 27.7 | • |
| ROH | ER E | 9 | 108.6 | | | | 2 | 88.6 | 85.7 | 82.6 | 78.8 | 74.5 | 64.6 | 59.7 | 55.5 | 50.9 | 45.6 | 39.6 | 32.2 | • |
| ANCE | TERB NGLE DUND | 50 | 111.5 | | 101.9 | | | 42.00 | 87.1 | 63.9 | 80.1 | 76.0 | 71.2 | 68.5 | 56.1 | 51.1 | 45.9 | 39.5 | 32.1 | , |
| د ح | OPERAT AF SII | 3 | 986 | in Su | 9 | 2 | | 7 6 | :: | | ÷ | ŝ, | 0 · 1 · 1 | | 54.6 | 4.64 | | 37.3 | 6 | • |
| PERCEL VED ANGLE AN | | 96 | w ~ € | | | m | | _ | 0 % 0 % | _ | _ | _ | | | | _ | _ | 36.6 | _ | |
| | SSOR | 20 | 108.1 1 105.9 1 | - | 98.6 1 | 93.3 | | 90.0 | | 81.7 | | | | | | 9 | M | 36.2 | _ | |
| IONE-CORRECTEU, AS A FUNCTION OF | SUBJECT 1 SE SUPPRESSOR NUP | 10 20 | 106.8 1 | | | | | A. A. A. | | 19.7 | | | 90 | | 50.8 | | | 7 | ň | 4 |
| ONE-CO | 7225 | - | 104.9 11 | | 96.0 | • | | | - IV | | ۰ | ۰ و | | | + | | | 33,7 | | |
| | SOUR 186 1 1 32A- 1 ROUND | ISTANCE (FEET) | | | | | | | | | | | | | | | | | | |
| TABL | NON . | DISTANCE (FEET) | 250 | 3 | 0 W | 2 | • | 1250 | 1600 | 2000 | 250 | 5 T C | | 6300 | 98 | 7000 | 1250 | 16088 | 2000 | 960 |

| TABL | A-WEIG AS A F | EIGHTED OV! A FUNCTION | ERAL OF | S 19 | N O | (DBA) | FROM S | SOURCE | | | | | | | | DENTION ONEGA | DENTIFICATION OMEGA 8.2 TEST 77-778-0 | CATION: 8.2 -778-001 | |
|--|--|---------------------------------------|----------------------|------------------------------|--|--------------------------|--|------------------------------|-------------------------|----------------------------|--|----------------------|------------------------|---------------------------------------|----------------------|--|--|----------------------------|----------------------|
| SIO | E SOURCE/SUBJECT! F-166 NOISE SUPPRESSOR AF 324-17 Ground Runup | JBJECT I SUPPR | te ssor | | 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | TION: FTERBU INGLE | RATION: AFTERBURNER POWER SINGLE ENGINE GROUND RUNUP (SUPP | OMER (Suppressed) | ESSED) | Ē Ö | HETEOROLOGY TEMP BAR PRE REL HUM DELTA N = | SS | = 59 =29.92 = 70 | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 7 8 8 1 | PROFER PAGE | US RAFT ATION ILE VE DV 79 | CODE CODE RS10 | 778 00103 N A |
| (DISTANCE (FEET) | 9 | 61 | 26 | 30 | 0,7 | 56 | 69 | 3.0 | ANGLE | 36 | EGREES) 100 | 110 | 126 | 130 | 140 | 150 | 160 | 170 | 180 |
| 509 | 91. u 88. 9 | | 92.8 | ÷ 01 | 95.6 | 95.9 | 95.2 | 90.8 | 93.3 | 91.3 | 90.9 | 87.3 | 89.3 | 69.5 | 87.6 | 90.7 | 91.6 | 93.9 91.7 | 85.00 |
| 100 | 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . | | 86.5 | | 91.5 98.9 | 91.5 89.3 | D 60 | 8 6 4 6 7 7 | 86.4 C | 86.7 | | 85.1 82.9 | 82.6 | 82.7 | 83.0 | 83.9 | 85.2 | 87.5 | 81.5 |
| 9000 | 82.4 80.1 77.7 | 82.3 83.0 77.6 | 84.2 81.9 79.6 | 8 3.5 6 1.5 1.5 1.5 | 8 8 6 1 4 5 1 4 6 | 84.6 84.6 82.2 | 84.2 84.2 | 79.9 77.6 | 84.5 82.1 79.7 | 80.1 77.7 | 79.4 | 84.5 78.1 75.6 | 77.8 75.4 | 77.9 75.3 | 78.6 | 81.6 79.1 76.6 | 80.5 78.6 | 82.6 82.5 | 77.0 |
| 1000 | 75.3 | 75.2 | 77.2 | 8 6 | | 79.7 | 79.5 | 75.3 | 77.2 | 75.2 | 74.2 | 73.8 | 72.8 | 72.7 | 72.7 | 74.0 | 75.5 | 77.7 | 72.2 |
| 22 c c c c c c c c c c c c c c c c c c | 67.6 | 67.1 | 69°3 | ; | | 71.7 | 71.7 | 67.6 | 69.1 66.1 | 67.1 64.0 | 65.4 | 6 6 6 | 64.4 64.4 | 0.49 | 63.8 61.5 | 65.4 | 67.2 | 69.4 | 64.5 |
| 3120 | 60.8 57.1 | 57.0 | 62.9 59.2 | 64.1 60.4 4.0 | 6.4.0 | 65.2 61.4 67.2 | 65.2 61.4 | 61.2 57.5 | 500.0 | 7 00 0 7 00 0 7 00 0 | 50.00 | 53.6 | 57.0 | 53.4 | 55.9 | 50 00 00 00 00 00 00 00 00 00 00 00 00 0 | 57.2 | 62.9 59.1 | 53.4 |
| 6300 | # 8 * 4 * 4 * | + + + + + + + + + + + + + + + + + + + | 50.7 | 14% | | 52.7 | 52.0 | 4.0° 5° 5° 5° 5° | 4 6 6 7 6 6 7 6 6 | 43.8 | 4 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 40,00 | | | 44.2 40.1 | 46.5 | 1 | 400 400 500 500 | 44 |
| (1000 0 (12500 | 40.6 36.2 | 40.4 | 4.2° 38° | m 0 | പ്പു കൂ | 44.7 | 6 • 4 4 6 6 4 6 6 4 6 6 4 6 6 6 6 6 6 6 | 41.1 | 41.6 | | 36.0 31.4 | 36. U 31. 3 | 37.2 32.7 | 36.4 | 35.7 | 37.8 33.0 | 40.0 35.1 | 42.1 | 36.8 32.5 |
| (25000 (25000 | 31.3 26.2 20.9 | 30.9 25.6 20.0 | 33.2 27.8 22.1 | 33.8 28.3 | 33,6 28,1 22,3 | 35.4 30.1 24.3 | 35.5 30.2 24.4 | 31.9 26.6 20.8 | 32.6 27.4 21.7 | 30.7 25.5 19.6 | 26.5 21.3 15.7 | 26.4 21.2 15.6 | 27.9 22.6 16.9 | 26.9 21.5 16.1 | 26.1 20.9 15.5 | 27.9 22.4 16.7 | 29.8 24.1 16.2 | 32.2 26.9 21.4 | 28.0 23.3 16.5 |
| | | | | | | , | | | | | | | | | | | | | |

| NOISE SOURCE/SUBJECT! F-106 NOISE SUPPR AF 32A-17 GROUND RUNUP | CE/SU | | | m | AND DIS | DISTANCE | FROM S | SOURCE | , | | | | | | | TEST | 77-77 | 78-001 | |
|---|---------|-----------------------|-------|------|----------------------------|-----------------------------------|----------------------------|--------|-------|-------|-----------|-------|--------------------|--------|-------------|------------|--|--------|-------------------|
| | RUNU | BJECT 8 SUPPR P | ESSOR | | 0 8 8 8 8 8 | TION: FTERBL INGLE ROUND | RNER PC ENGINE RUNUP | ONER | ESSED | 2000 | ETE | SS | = 59.92 = 70.08 | 2 F HG | | A CONTROLL | AIRCRAFT OPERATION PROFILE VEI PAGE GS | CODE | 778 00103 A |
| DISTANCE (FEET) | 0 | 10 | 20 | 8 | 3 | 50 | 9 | 2 | ANGL | 4 111 | (DEGREES) | 110 | 123 | 130 | 146 | 150 | 160 | 170 | 180 |
| | 91.0 | 92.3 | 94.2 | | ~ | 97.0 | 95.2 | 92.0 | 7.46 | 3 | | 89.5 | 91.2 | 91.3 | 91.5 | 92.1 | 93.1 | 95.4 | 89.3 |
| 250 445 | 88.9 | 90.2 | 92.1 | 93,7 | 95.1 | 96.8 | 93.1 | 89.9 | 92,5 | 4.36 | 88.7 | 87.3 | 89.0 | 39.68 | 89.3 | 89.9 | 90.9 | 93.2 | 87.2 |
| | 84.6 | 85.9 | 87.7 | | iė | 90.4 | 88.8 | 85.7 | 88.1 | 96 | | 82.9 | | 200 | 84.7 | 85.4 | 86.4 | 8.8.8 | 82.8 |
| 200 | 8 2. 4 | 83.6 | 85.5 | | • | 88.1 | 86.5 | 83.5 | 85.8 | 8 | | 80.5 | 82.1 | 82.1 | 82.3 | 83.0 | 84.1 | 86.5 | 80.6 |
| | 80.1 | 81.3 | 83.2 | | ů, | 85.7 | 84.2 | 81.2 | 83.5 | 81.4 | | 78.1 | 79.7 | 79.6 | 79.7 | 80.6 | 81.7 | 84.2 | 78.3 |
| | 11.1 | 78.9 | 6 • 3 | | 83.8 | 83.3 | 81.9 | 78.9 | 81.1 | 79.0 | 76.8 | 75.6 | 77.2 | 17.1 | 77.1 | 78.0 | 79.2 | 81.7 | 76.0 |
| | 75.3 | 76.5 | 78.5 | • | | 80.8 | 79.5 | 76.6 | 78.6 | 76.5 | 74.2 | 73.0 | 7.4.7 | 74.5 | 74.4 | | 76.7 | 79.2 | 73.6 |
| | 72.7 | 73.9 | 76.6 | • | | 78.2 | 77.0 | 74.1 | 76.0 | 73.9 | 71.4 | 70.3 | 72.0 | 71.7 | 71.6 | | 74.0 | 16.6 | 71.0 |
| | 9.0 | 71.2 | 73,3 | • | | 75.6 | 4 . | 71.5 | 73,3 | 71.2 | | | 69.5 | 89 | 68.6 | | 71.3 | 73.8 | 68.3 |
| | 7.70 | 66.0 | 9.6 | 91, | 5 6 5 | 200 | 71.7 | D 0 | 70.5 | 500 | 200 | ÷ • | 66.3 | 65.0 | , , , | 60.0 | 500 | 70.9 | 300 |
| | 6 1 8 A | 52.4 | 66.0 | • • | | ¥ 99 | , , o | 62,5 | 2 2 2 | 61.7 | | 57. S | 100 | 0 6 | 58.6 | | 62.0 | , to 1 | E.A. 7 |
| | 57.1 | 56.1 | 60.3 | | | 62.3 | 61.4 | 58.5 | 59.6 | 57.6 | 54.1 | 53.6 | 55.5 | 54.8 | 54.3 | | 58.1 | 60.3 | 54.5 |
| | 53.0 | 53.7 | 55.9 | | | 57.9 | 57.2 | 54.1 | 54.9 | 53.0 | 49.6 | 49.2 | 50.9 | 56.3 | | | 53.9 | 55.9 | 49.9 |
| | 48.6 | 6.8. | 51.2 | | 52,3 | 53.2 | 52.8 | 49.5 | 50. | 48.1 | | 44.5 | 46.0 | 45.4 | | | 49.2 | 51.2 | 45.1 |
| | 44.7 | 4.0 | 47.1 | • | | 49.1 | 48.9 | 45.4 | 45.9 | 6.4. | 40.5 | 40.3 | 41.8 | | | | 6.4.8 | 46.8 | 41.1 |
| 10000 | 40.6 | 40.4 | 42.7 | m | | 44.7 | 6.44 | 41.1 | 41.6 | 39.7 | 36.0 | | 37.2 | 36.4 | 35.7 | 37.8 | 0.04 | 42.1 | 36.8 |
| | 36.2 | 35.8 | 38, 1 | 38.8 | 38.6 | 40.3 | 40.3 | 36.7 | 37,3 | 35.4 | 31.4 | 31.3 | 32.7 | 31.6 | 31.1 | 33.0 | 35.1 | 37.3 | 32.5 |
| | 31.3 | 30.9 | 33.2 | m | | 35.4 | 35.5 | 31.9 | 32.6 | 30.7 | 26.5 | | 27.9 | 26.9 | 26.1 | 27.9 | 29.8 | 32.2 | 28.0 |
| 20000 | 26.2 | 52.6 | 27.8 | ŝ | | 30.1 | 30.5 | 26.6 | 27.4 | 5 | 21,3 | | 22.6 | 21.6 | 20.9 | 22.4 | 24.1 | 26.9 | 23.3 |
| | 20.9 | - | • | • | | • | | | | | | | | | | | | | |

| 0 | DISTANCE | = 250 | FEET | | | | | | | | ` ~ [| TEST 77 | , 0.6 77-778-031 ns |
|---|----------------------------------|--|--------|--|----------------------------|-----------------------------|---------------|--|---------------------------------|----------------------------------|----------|---|--|
| NOISE SOUR F-106 AF 32A GROUND | KCE/SI NOI SE 1-17 RUNU | E SOURCE/SUBJECT! F-106 NOISE SUPPRESSOR AF 32A-17 Ground Runup | ~ | OPERATION: AFTERB SINGLE GROUND | URNER P ENGINE RUNUP | POWER IE (Suppressed) | | METEOROLOGYS BARPES BARPRES REL HUMI DELTA N = | OGY 1 PRESS HUMID = 0. | = 59 F =29.92 IN HG = 70 % | | AIRCRAF OPERATI PROFILE 26 NOV | AIRCRAFT CODE 7 OPERATION CODE 0 PROFILE VERSION 28 NOV 79 PAGE JS |
| | | | | P=PNLT | | | A=AL | | | T=AL | _ | | |
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| 9 | · • | • | | • | • | • | • | • | | - W | • | Q | • |
| A 50 | | • • | | • • | | • • | • • | • • | | | | • • | • • |
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| E 70 | • | • | | • | • | • | • | • | | 41 | ٠. | • | • |
| I 80 | • • | • • | | • • | • • | | • • | • • | | . A T | ۵. | •• | • • |
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| 150 | ٠. ت. | • | • | • | • | • | • | • | V | • | | • | • • |
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| 180 | • · | • | • | • | • | • | • | • | AT. | • | • • | • | • |
| | | | | • | • | • | • | • | | • | • | • | • |

| SUPPRESSOR F-111A NOISE SUPPRESSOR SUPPRESSOR F-111A NOISE SUPPRESSOR NOISE PRODUCED ON THE GROUND BY F-111A NOISE SUPPRESSOR F-111A NOISE SUPPRESSOR DURING GROUND RUN-UP OPERATIONS | TEST 78-779-001 AIRCRAFT CODE: 779 PROFILE VERSION: A MPUTER PROGRAM OMEGA 8.2 | | OR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED: ORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY OSMALIZED SPL AT 250 FEET OISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL | L RESEARCH LABORATORY AIR FORCE BASE, OHIO |
|---|---|---|---|---|
| F-111A NOISE SUPPRESSOR F-111A NOISE SUPPRESSOR NOISE PRODUCED C F-111A NOISE DURING GROUND RU | TEST AIRCRAF PROFILE COMPUTER | Idle Power, 66.9% RPM Engine Runup, 75% RPM Military Power, 96.5% RPM Zone 3 Afterburner Power Zone 5 Afterburner Power | FOR EACH POWER SETTING, THE FOLLOWING DAT NORMALIZED DATA AS A FUNCTION OF ANGLE AN NOISE LEVELS AS A FUNCTION OF ANGLE AND D PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SO | |
| F-111A NOISE SUPPRESSOR | | | | 4. 25 M M |

| ;· | ~~~~ | ?^^^ | ` ^ | ~ | , – | | ^ ^ | ` ^ | ^ | ^ | ^ | ~ ^ | _ | ^ | $\hat{\mathbf{v}}$ | - | ~ | ~ | ~ | ^ | ^ | ^ | ~ | • - |
|---|---|------------------|-----------|-------------|----------|----------|------------|------------------|-----|------------|-----|--------------|-------------|------|--------------------|-------|------------|------------|------------|------|-----|------------|------------|---------|
| | 779 0011 A | 160 | 62 | . 0 9 | 2.5 | 69 | 77 | 2 2 | 70 | 99 | 99 | 19 | 5.0 | 25 | R. | ľ | _ | 4 | * | 4 | 4 | 9 | 34 | Ĭ |
| ON: | CODE CODE ERSION | 170 | 63 | 99 | 22 | 69 | 7; | 7 % | 69 | 99 | 99 | 7 8 | 5 5 6 | 25 | 53< | 52< | 524 | 510 | 500 | 64 | 4 | £ 34 | 37 | 9 |
| FICATION: 6.2 78-779-001 | FT CION C | 160 | 63 | 67 | 72 | 69 | 7 | 25 | 99 | 62 | 69 | 7 | 5 5 7 | 20 | 56 < | 57. | 21 | 26 | 9 | 53 | 21 | 47 | 94 | • |
| DENTIFICATIONS OMEGA 6.2 TEST 76-779-00 | AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE C1 | 150 | 63 | 22 | 72 | 2 | 2, | - - - | 29 | 6 2 | 65 | 29 | 0 K | 28 | >49 | 69 | 61 | 9 | 6 2 | 26 | 2 | 20 | 4 | 9 |
| | X 2 9 2 9 2 | | | 9 4 | | o | ~ u | , 6 | • | ~ | • | . | o 10 | . ~ | ¥ | × | _ | 1 0 | -4 | • | ~ | • | - | ø |
| | 9 # | 031 | ٠ | 9 2 | . ~ | ڡٚ | • | Φ Φ | 9 | 9 | Φ. | י פ | מ ח | S | | ī | in | | | Ň | | Ī | j | ~ |
| | 711% 1 | 130 | 63 | 92 | 2. | 67 | 9 9 | 6 6 | 99 | 62 | 49 | 2 6 | 2 K | 52 | 62< | 69 | 61 | 61 | 65 | 9 | 23 | 56 | 55 | 79 |
| | 9.92 70 70 0 08 | 120 | 63 | 99 | 200 | 29 | 69 | 2.9 | 65 | 61 | 63 | 19 5 | 5 5 5 | 21 | 63< | 68 | 62 | 6 2 | 99 | 49 | • | 9 | 53 | 79 |
| | 1 2 1 | 97 | 9 | 67 | 2 | 29 | 9 5 | 9 9 | 65 | 63 | 99 | | 2 °C | 29 | 63 | 20 | 65 | 9 | 69 | 29 | 68 | 6 4 | 29 | 80 |
| | HETEOROLOGYS TEMP BAR PRESS REL HUMID DELTA N = | S) | 51 | 69 | 1 (1 | 7 | T 9 | . e | 90 | 62 | 99 | . | 9 4 | 09 | 63< | 29 | 53 | 53 | 69 | 68 | 9 | 99 | 23 | 6 |
| | BAR LTA | 7 7 4 | | | , | | | - | | | _ | | _ | | v | | | | | | | | | |
| | £ 3 | 90 | 63 | 68 | 72 | 9 | 9 6 | 7.2 | 7 | 9 | 3 | 9 | 20 | 60 | 63 | 9 | 3 | 63 | 68 | 67 | 67 | 9 | 3 | 81 |
| | • ~ | ANGLE | 63 | 67 | 69 | 70 | 6 | 69 | 99 | 65 | 99 | ÷ 6 | ν «ς Ω Ω | 25 | 62 < | 68 | † 9 | 63 | 69 | 68 | 68 | 49 | 62 | 9 |
| | 9% KPM Suppressed | A D | 63 | 99 | 202 | 29 | 99 | 72 | 9 | 49 | 65 | 9 | ת מני | 58 | 6 2 | 77 | 99 | 63 | 17 | 69 | 68 | 99 | 99 | 81 |
| | | 99 | 19 | 69 | 2.2 | 20 | 77 | 2 2 | 68 | 65 | 70 | 29 | 500 | 29 | 62 | 72 | 99 | 63 | 7. | 99 | 99 | 65 | 19 | 82 |
| (08) | 8 5 S | 5.0 | 99 | 67 7.1 < | . 2 | 7.1 | 22 | 1.2 | 99 | 49 | 99 | * C | ۷ c | 28 | >99 | 73 | 49 | 65 | 71 | 99 | 29 | 65 | 9 1 | 83 |
| VEL | POMER POMER ENGR | | | ~ 4 | . | _ | ۸. ۵ | | 10 | ٥. | 10 | m - | - · | _ | 10 | | | | 4 | | | 9 | _ | |
| Ä J | ERATIONS IDLE POWE SINGLE EN | 3 | 30 | ~ ~ | . 2 | 7 | 23 | 5 2 | 39 | Ğ | 9 | 6 | <u>0</u> | Ň | 9 | Ž | 9 | 29 | 7 | 67 | 3 | 3 | 3 | 9 |
| ESSURE LEVEL | 0 0 0 0 0 0 0 0 0 0 | 30 | 72 | 72 | 2 | 75 | 76 | 7.2 | 72 | 69 | 29 | e P | 6 0 | 99 | 68 | 11 | 69 | 99 | 75 | 99 | 68 | 99 | 5 | 86 |
| 4 W | œ | 20 | 29 | 7 2 2 | * * | * | 42 | 3 P | 7.1 | 99 | 99 | 63 | 2 5 | 61 | 69 | 19 | 70 | 70 | 92 | 7 | 70 | 69 | 4 | 96 |
| SOUN BAND 25¢ | S | 3 | 65 | 72 75 | * | 42 | 92 5 | 2 22 | 73 | 69 | 69 | 1 9 7 | 1 5 2 0 | 23 | 99 | 92 | 6 2 | 65 | 71 | 92 | 99 | 68 | 29 | 85 |
| ОШН | SOURCE/SUBJECT: 1A NOISE SUPPRES: A-13 | - | 99 | 73 | 22 | 75 | 79 | 3 22 | 73 | 7.1 | 73 | 65 | 200 | 60 | 69 | 79 | 68 | 68 | 74 | 99 | 99 | 67 | 29 | 87 |
| RMAL 3 OC STAN | RCE/SUBJE Noise Sup 3 | | _ | | | | • | | | | | | | _ | _ | | - | _ | . • | - | _ | - | - | ~ |
| 8770 1010 | OURCE/S A NOISE -13 | CENTER Q (HZ) | | | | | | | | | | | | | | | | | | | | | | بِـ |
| • | ISE SOUF F-111A Af32A-13 | D CEN | 20 | 6 3 | 100 | 125 | 160 | 250 | 315 | 001 | 200 | 630 | 1000 | 256 | 1600 | 9 D C | 230 | 150 | 900 | 5006 | 300 | 000 | 30r | OVERALL |
| TABLE | Ž | BAND | | | | | | | | | | | - | 1 +4 | 4 | ~ | 0 | m | # | w | 9 | ₩ | 70 | ò |
| | | <u>.</u> | | | | _ | | | J | J | J | _ 、 | | | J | J | J | J | J | J | J | J | | |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| NOISE SOL | AS A | FUNCTION | P. | 4 | AND DIS | | FROM SC | SOURCE | | | | | | | | ONEGA ONEGA) TEST | | 6.2 6.2 78-779-881 | |
|---|-----------------------|----------------------|----------------------|----------------------|--|-----------------------------------|----------------------|------------------------|---------------------------------------|----------------------|--|----------------------|------------------------|---------------------------------------|--|---|----------------------|------------------------------|----------------------|
| AF 321 | RCE/S A NOI -13 | UBJECT: | RESSOR | g. | OPERATIONS IDLE P SINGLE GROUND | | 0 K d | 9× RPH (SUPPRESSED) | SSED) | Ē - | METEDROLOGY TENP BAR PRE REL HUM DELTA N = | PRESS HUMID | = 59 =29,92 = 70 | N N N N N N N N N N N N N N N N N N N | | AIRCRAF OPERATI PROFILE 26 NOV | 」 t | CODE CODE RSION | 779 00113 |
| DISTANCE (FEET) | - | 10 | ₹ | 8 | 9 | 20 | 69 | 2 | ANGLE 8ú | COEGREES 90 100 | REES) | 110 | 120 | 130 | 140 | 150 | 168 | 170 | 182 |
| 250 | 100.4 | 98.0 | 100.7 | 99.6 | 96.3 | 96.5 | 96.0 | 95.7 | 94.6 | 94.7 | 94.9 | 94.8 | 92.6 | 91.7 | 86.0 | 91.6 | 86.0 | 67.1 | 67.6 85.4 |
| 000 000 000 000 000 000 000 000 000 00 | 93.5 | 97.0 | 93.7 | 92.6 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 86.2 86.2 7.5 7.5 7.5 | 86.0 86.0 | 85.6 | 87.3 84.6 84.7 | 84.7 84.7 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 84.7 | 85.3 82.6 79.6 | 86.7 82.2 79.6 | 000 000 700 700 700 700 700 700 700 700 | 84.9 82.4 92.4 | 78.6 78.6 | 77.9 | 78.9 |
| 800 | 85.7 | 83.1 | 85.8 | 94.7 | 82.8 | 80.9 | 80.5 | 79.6 | 76.6 | 76.6 | 78.8 | 78.9 | 77.1 | 6.9 | 72.5 | 77.2 | 72.9 | 72.4 | 73.0 |
| 1990 | 62.8 | 83.2 | 62.9 79.7 | 81.8 | 79.8 | 76.8 | 77.6 | 75.4 | 75.3 | 75.5 | 75.5 | 72.7 | 74.2 | 76.0 | 66.9 | 74.4 | 69.8 | 66.1 | 70.0 |
| 1600 2000 2500 | 76.4 72.8 68.9 | 73.7 | 72.7 | | 69°6 | 71.5 67.7 63.6 | 71.0 67.3 63.3 | 69.7 65.9 61.8 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 666.6 | 64.5 | 69.3 65.6 | 67.6 63.9 59.7 | 67.5 63.9 59.8 | 65.5 66.5 56.5 | 0 4 M | 63.5 68.1 56.1 | 62.7 59.3 55.4 | 59.2 59.2 |
| 3150 | 50 % 50 % | 61.3 56.1 | 56.9 | | 50.0 | 50.00 | 58.6 | 57.0 | 200 | 20.0 | 55.7 | 56. 7 51. 3 | 4.0° 0 | 55.1 49.5 | 52.2 | 55.7 | 51.4 | 50°8 | 50° 0 |
| 9000 9000 9000 | 53.6 47.6 38.6 | 50.2 43.1 34.4 | 53.8 46.3 37.9 | 52.1 45.1 37.2 | 4 5° 8 3 3° 5 3 3° 5 | 47.6 39.5 30.6 | 47.4 39.6 33.0 | 45.3 37.3 26.1 | 43, 2 35, 0 26, 8 | 43.9 35.0 27.5 | 32°5 29°5 29°5 | 45.1 36.9 29.9 | 45.6 34.2 24.4 | 43.8 35.8 25.5 | 46.5 32.9 28.1 | 43.6 35.8 27.3 | 39.5 32.6 25.2 | 39.3 31.7 26.4 | 39.3 32.3 27.6 |
| 12000 12000 16000 2000 2000 | 31.723.9 | 27.0 17.2 6.3 | 26.6 10.7 | 26.2 2.9 2.9 | 20°8 8°9 | 21.2 10.7 | 26.2 18.3 9.1 | 5.0 8.0 8.0 | 19.2 16.7 2.2 | 17.0 | 4 8 6 4 | 19.2 10.7 2.2 | 13.9 3.4 | 4.4 3.5 | 25. 25. 25. 25. 25. | 7. 6.6 | 4. 8. 9. 9. | 9.6 | 19.7 10.7 1.7 |

| (TABLE: | TONE-CORRECTED, AS A FUNCTION OF | E-CORRECTED A FUNCTION | • • | PERCEI VE ANGLE A | VED NOISE | LEVE | P P P P P P P P P P P P P P P P P P P | DB) SOURCE | | | | | • | | |) IDENTI) OMEGA) TEST | - | 100-6 | |
|--------------------|-------------------------------------|---------------------------|----------------|----------------------|-------------------|--|--|---------------|----------------|--------------|--|----------------|---|-----------------|----------|---|------------|-----------------------|---------------------|
| NOISE SC F-11 | L NO | BJECT (| RESSOL | ~ | OPERA N | RATIONS IDLE PO SINGLE GROUND | ATION: IDLE POMER 66.9% SINGLE ENGINE GROUND RUNUP (SU | a 9 | M ESSED) | ž ő | HETEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | = 59 =29.92 = 70 0 08 | FIN NIN H | | AIRCRAF OPERATI PROFILE 28 NOV | 4 E Z T XI | C00E C00E RSION | 779 00113 A |
| (DISTANCE (FEET) | | 10 | 10 20 | 25 | 3 | 56 | 99 | 9.4 | ANGLE | - 6 | DEGREES) 0 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | | 161.3 99.0 | 103.9 101.6 | 163. 100. | 101.3 99.0 | 99.2 | 96.1 | 97.8 | 96. 2 93. 8 | 96.2 | 96.2 | 96. 6 94. 2 | 94.5 92.1 | 94.2 | | 94.1 | 90.4 | 87.6 | 88.2 |
| 125 | 99°3 96°9 | 96.7 | n 6 6 6 | | 0 9 9 8 | 94.4 | 93.6 91.1 | 90°0 | 91.0 | 91.3 86.8 | 91.3 66.8 | 91.8 89.3 | 83.7 87.2 | 89.5 87.2 | . | 89.6 87.2 | 85.7 | 63.1 88.8 | 63.6 61.6 |
| 500 | 94.5 | 91.8 | 94.4 | 93,3 | 91.3 | 89.2 | 86.4 | 87.7 | 86.1 | 86.1 | 85.1 | 85.6 | 84.5 | 84.8 | M 4 | 84.6 | 60.6 | 7004 | 79.2 |
| 999 | 89.1 | 86.4 | 89.6 | | 85.8 | 83.6 | 82.9 | 81.7 | 80.2 | 80.2 | 80.1 | 80.7 | 79.0 | 19.6 | | 79.5 | 7.9 | 72.9 | 73.7 |
| 1250 | 86.2 | 83.5 | 86.1 83.0 | 65. 81. | 82.9 79.7 | 80.6 | 79.9 | 76.5 | 76.8 | 76.9 | 76.8 | 7.77 | 76.1 | N 10 | | 76.7 | 71.668.6 | 79.8 | 70.7 |
| 1630 | 79.9 | 77.8 | 79.6 | 76.5 | 76. 4 72. 6 | 74.1 | 73.4 | 71.8 | 69. 4 66. 0 | 70.2 | 69.6 66.0 | 71.1 | 69.5 | 70.8 | | 78.4 | 65.5 | 63.2 | 63.8 |
| 2500 | 72.3 | 69.3 | 71.8 | 70. | 6 6 6 6 7 5 | 66.3 | 65.6 | 63.9 | 61.8 | 62.2 57.4 | 61.8 57.0 | 63. 3 58. 6 | 61.6 | m 4 | | 62.6 | 58.1 | 55.9 | 56.0 |
| 0304 | 62.1 | 90 | 61.5 | 9 | 58.1 | 55.9 | 55.2 | 200 | 51.3 | 51.6 | 51.2 | 52. | 51.0 | 51.5 | ۰۵۰ | 52.2 | 4.2.4 | 45.7 | 9 |
| 9900 | 9.04 4.00 0.00 | 2 V • V | 47.6 | : .: | 4 % 4 % 4 % | * 0 * * 0 * | | 30.1 | 35.6 | 36.5 | 45.4 45.4 | 46. Z 37. 6 | 8 ° 9 ° 9 ° 9 ° 9 ° 9 ° 9 ° 9 ° 9 ° 9 ° | 36.0 | | 45.6 | 33.4 | 39.6 | 39.7 |
| 70 88 J | 39.5 | 35.1 | 38.5 | | 33.8 | 31.1 | 33.5 | 59.6 | 29.5 | 27.8 | 5.62 | 30.3 | 24.8 | 26.1 | 28.5 | 27.7 | 55.6 | 56.5 | 27.7 |
| 10300 | 31.7 | 27.0 | 26.6 | 56. | 20.2 | 21.2 | 26.2 | 17.3 | 19.2 | 17.0 | 18.4 | 19.2 | • | * | 23.3 | 17.5 | 18.2 | 19.0 | 19.7 |
| 00091 | 16.4 | 1/02 | 7.01 | | ů | 10.7 | 1 0 0 2 0 1 | | 20.2 | 7.2 | 9.5 2.5 | 18.7 | ** | 9 | 15.6 | • | 6.0 | 9 | 10.7 |
| 25690 | 6 • | • | | | | • | ! | | } | | | 1 | | | m | | | : | ì |
| | | | | | | | | | | | | | | | | | | | |

| (TABLE: | A-WEIG | A-WEIGHTED OVERALL S | VERALL | О. | , , | (084) | 1 | 6 | | | | | | | |) IDENTI | DENTIFICATION OMEGA 8.2 | FICATIONS 8.2 | |
|---------------------|-------------------|----------------------|-------------|---------------|------------|--|-------|-------------|-------------|-----------|---|-------|---------|---------|------|----------|----------------------------|------------------|--------------|
| () | ELIGIBLE E SE | DI SECTA | 5 | , , | 2 8 | STANCE TO STANCE | | | | 1 | ×20 1000 1111 | | | | | RUN C | | 100-6 | 70 |
| F-11 (AF32 | F-111A NOISE SUPA | E SUPP | SUPPRESSOR | | 2 | | 9 2 9 | .9% RPI | ¥ 6 | | TEMP | PRESS | | F IN HG | | 9.00 | Z > (| CODE | 80113 N A |
| | | | | - | 5 | | | COUPTRESSEU | ESSEU) | ō | REL DELTA N | | 80 | | | PAGE | 7 7 F1 | | |
| (DISTANCE ((FEET) | 0 | 97 | 20 | 8 | 3 | 20 | 9 | 92 | ANGLE 89 | (DEGREES) | REES) | 977 | 128 | 130 | 140 | 150 | 160 | 17.0 | 180 |
| 500 | 85.5 | 82.9 | 86.3 | 84.7 | 83,3 | 81.3 | 81.0 | 80.5 | 79.4 | 79.5 | 79.6 | 79.8 | 77.5 | 76.9 | 73.4 | 77.0 | 73.6 | 73.2 | 74.0 |
| 550 | 63.3 | 80.7 | 94.0 | | 81.1 | 79.0 | 78.7 | 78.1 | 77.0 | 77.1 | 77.2 | 77.5 | 75.3 | | | 74.8 | 71.5 | 71.1 | 72.0 |
| 312 | 81.6 | 78.3 | 81.7 | . | 78.7 | 76.6 | 76.3 | 75.7 | 74.6 | 74.8 | 74.8 | 75.1 | 72.9 | 72.4 | | 72.6 | 69.3 | 69.1 | 40.0 |
| | 76.3 | 73.5 | 76.8 | 75.3 | 2 % 2 % | 71.7 | 71.5 | 70.6 | 69.6 | 69.7 | 69.7 | 70.2 | 68.1 | 1007 | 66.4 | 6.00 | 200 | 64.8 | 65.7 |
| 630 | 73.8 | 71.0 | 74.2 | ี่เล้ | 71.2 | 69.5 | 69.9 | 6.29 | 6 9 9 | 67.1 | | 67.5 | 65.5 | 65.2 | | 65.6 | 62.6 | 62.5 | 63.4 |
| 000 | 71.3 | 68.4 | 71.5 | ÷ | 68,5 | 66.5 | 66.3 | 65.2 | 64•1 | 64.4 | 2 • 4 9 | 64.8 | 65.9 | 62.6 | 60.0 | 63.1 | 60.1 | 60.1 | 6.09 |
| 9001 | 6.8.6 | 66.7 | 6.A. 7 | | £ 6. 6 | 61.7 | 7 | 5.2.3 | 6 4 3 | 4 | . , , | 4.63 | . 64 | 0 | 7 63 | 4 | 4 7 4 | 4.4 | 4 |
| 1250 | 65.8 | 62.8 | 65.7 | : ; | 62.6 | 60.7 | 60.7 | 59.3 | 58.2 | 20.0 | 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P | | 57.2 | 57.1 | 55.1 | 57.7 | 24.9 | 55.0 | 55.7 |
| 1600 | 62.8 | 59.8 | 62.5 | ÷ | 59,4 | 57.6 | 57.7 | 56.1 | 55.1 | 55.4 | 55.3 | | 54.1 | 54.5 | 52.5 | 54.8 | 55.5 | 55.5 | 52.0 |
| 2000 | 59.6 | 26.6 | 59.2 | • | 56.1 | 54.4 | 54.6 | | 52.0 | 52.2 | | 52. 8 | 50.9 | 51.0 | 6.64 | 51.8 | 49.3 | 49.4 | 6.64 |
| 0962 | 56.2 | 53.1 | 5.0 10.0 | ָ פּ פּ | 52° | 58.9 | 51.3 | 40° | 9.0 | 48.7 | | | 47°5 | 47.7 | 47.0 | 40.4 | 40.4 | 46. | 46.6 |
| 9004 | 4 | 44.9 | 47.2 | : 6 | 4 6 6 | 43.0 | 43.6 | 41.4 | | | 11.3 | 61.0 | 0 · 0 M | 0 | 0.0 | . 9 | 38.5 | 30.5 | 38.7 |
| 2000 | 43.3 | 40.2 | 42.3 | | 39.4 | 36.5 | 39.1 | 36.8 | 36.4 | 36.5 | 37.0 | 37.5 | 35.3 | 35.4 | 35.6 | 36.0 | 34.2 | 34.1 | 34.3 |
| (6300 | 38.1 | 35.0 | | | 34.2 | 33.6 | 34.4 | 31.9 | 31.7 | 31.8 | 32.4 | 32.8 | 30.5 | 30.6 | 31.2 | 31.2 | 29.7 | 29.7 | 29.8 |
| 0000 | 33,3 | 30.3 | 31.3 | + | 29,1 | 29. | 30.3 | 27.5 | 27.7 | 57.6 | 28.2 | 28.5 | 26.1 | 26.2 | 27.8 | 56.9 | 26.1 | 26.2 | ₹9.4 |
| 10880 | 28.7 | 26.8 | 36. | ď | 40 | 1 10 | 26.1 | | | 0.40 | | 16 | 7 | | • | | • | | |
| 12500 | 24.3 | 21.4 | 20.6 | 22.1 | 19.1 | 19.6 | 24.8 | 18.5 | 1 6 6 | 18.6 | 100 | 4 4 | 17.1 | 17.1 | 20.0 | 18,0 | 18,1 | 18.4 | 18.9 |
| (16900 | 19.7 | 16.9 | 15.7 | 2 | 14.2 | 15.0 | 17.2 | 13.7 | ; | 13.9 | 14.5 | 14.6 | 12.3 | 12.3 | 15.4 | 13.3 | 13.6 | 16.1 | 14.6 |
| 20800 | 14.9 | 12.2 | 10.8 | 2 | 6 | 10.0 | 12.1 | 9.6 | 9,3 | 8.8 | 4.6 | ಹ | 7.2 | 7.1 | 10.4 | | 8.8 | 4.6 | 10.1 |
| 25300 | 9.6 | 7.2 | 5. B | | ¥. ± | *• 7 | 6.4 | 3.2 | 3, 7 | 3.6 | 3.9 | 3,6 | 1.9 | 1.7 | | M. W. | 3.6 | P .4 | 5.5 |
|) | | | | ſ | | | | | | | | | | | | | | | |

| ~~~ | | | . ~ ~ | | `~ | | | ^ | ~ - | ` ~ | _ | ^ | ~ . | | • ~ | ~ | - | _ | ^ | _ | ~ |
|--------------------------------------|---|--------------------|--------------|--------------|-----------|-----------------|---------|-------|------|----------|------|------|--|------------|---------------|---|----------|-------|--------|-------|-----|
| | 779 06113 | 160 | 74.7 | 70.6 | 66.3 | 64.0 | • • • | 59.1 | 56.3 | 51.5 | 47.2 | 43.5 | 39.5 | *** | 26.5 | 4 | 22.8 | 18.9 | 14.6 | 10.1 | 5.5 |
| 100 -6 | CODE CODE RS I ON | 173 | 73.7 | 69.6 | 65.3 | 63.0 | • | 58.5 | 55.5 | 6.04 | 46.7 | 43.1 | 36.9 | | 26.3 | | 22.5 | 18.4 | 14.1 | 4.6 | 4.3 |
| DENTIFICATION OMEGA 6.2 TEST 78-779- | ACCRAFT OPERATION PROFILE VEI 28 NOV 79 PAGE 61 | 160 | 75.6 | 71.6 | 66.99 | 64.6 | 2 • 30 | 59.7 | 57.0 | 51.3 | 48.1 | 44.5 | 40.2 | \$ 00 P | 26.5 | | 25.2 | 18.1 | 13.6 | 8.0 | 3.6 |
| DENTI OMEGA TEST | AIRC OPER PROF | 150 | 79.3 | 75.0 | * · · · · | 6.7.9 | * • • • | | 0.09 | 56.1 | 50.7 | 47.0 | 6.5 | * | 27.3 | | 22.5 | 2 ° 0 | 13.3 | * | 3.3 |
| | | 140 | 75.5 | ~ - | | 10.0 | | 8 | 57.2 | | ~ | • | ، و | , | 4 ~ | | 24.1 | 9 | * | 4 | 10 |
| | FIX SH | 130 | | <i>o</i> r 4 | | ٠. | | 72 | 59.6 | ٠. | N | 70 | | , d | | | | - | m | | |
| | = 59 =29.92 = 70 0 08 | 021 | | С | , 0 | | | = | | . | | | m. | * 0 | 26.5 | | 21.6 | | m | ~ | 1.9 |
| | SH | 110 | 51.7 7 | o 4 | | | 9 | 90 | σ. | 54.7 | m | ~ | m (| . | , o | | 24.1 | 'n | 9 | m | 9 |
| | METEOROLOGY TEMP BAR PRE: REL HUM | | o. 70 | | | m u | • | s s | | o .at | - | 6 | m (| | ט ע | | 6.8 | • | rv. | 4 | σ |
| | 2 C C C | (DEG3 | 60.9 | 2.5 | 1.2 | 6.5 | • | 6 | | o ve | - | | ᆏ. | | - 60 | | 3.2 | 9.6 | • | • | • |
| 08 4) | SSED) | ANGLE 80 | 78.6 | 21 | . + | | 9 | 90 | 59.8 | - 10 | - | s | ન . | * 4 | | | 3.5 | - | | | |
| LEVEL (DI SOURCE | .9% RPM (SUPPRESSED) | 78 | 82.6 | 40 N | . 40 | -1 * | , | | 61.4 | , , | · w | _ | - 4 , | -1 « | , თ | | 23.0 | n | 13.7 | 8.6 | 3.2 |
| 0 2 | OMER 66. ENGINE | 99 | M G | | , or | 10 h | | 6 | 63.4 | 4 a | _ | | ın ı | n r | . 40 | | 26.1 | 21.8 | 17.2 | 12.1 | 4.9 |
| <i>v,</i> | | 5.0 | 83.9 | M G | ٠. | . | 4 | m | 63.4 | 2 -4 | ص ا | 80 | | - 4 | 29.6 | | 24.4 | | _ | | _ |
| 0 0 | OPERATION IDLE SINGL GROUN | 3 | | # d | 5 6 | ~ u | • | ~ | | ٧ - | S CO | 9 | ٠, | 7 4 | ~ | | | | ‡ ~ | ~ | |
| -WEIGHTED ANGLE AND | | 30 | 87.6 | m d | , rv | 9 6 | , | S | 67.6 | n N | ~ | • | σ, | ه ه | י ע | | 5.6 | | m | | |
| 0. A | ESSOR | 20 | 89.5 | | | | | GT. | 69.9 | e | • | _ | ~ (| u + | | | 25.8 | | | | |
| CORRECTE | , _ & | 10 | 86.3 | | | 74.4 | | | | | 56.5 | | | u N | 31.0 | | . | | _ | 12.2 | ~ |
| TONE-CO | 型地で | 9 | 89.6 86.7 | 84.5 | 79.7 | 77.3 | • | 72.0 | 69.2 | 63.0 | 59.6 | 55.7 | 50.8 | 200 | 34.0 | | 28.7 | | | 14.9 | 9.6 |
| 9LE 8 | NOISE SOUR F-111A AF32A- | DISTANCE (FEET) | 200 | | | | 9 | 10 00 | | 2000 | 2500 | 3150 | \$000 600 600 600 600 600 600 600 600 600 | 7 | 9 9 9 9 9 9 9 | | | 12580 | | 24000 | |

| c | DISTANCE | 25.0 | | | | | | | | | 6 | OMEGA 8.2 | 9-6 |
|--------------------------------|----------------|--|--------|---|--|-------------------------|------------------------------|---|-------------|-------------|-------------|--|------------------------------------|
| | | | | · · · · · · · · · · · · · · · · · · · | ******* | | | | | | | - TO NO | |
| NOISE SOUR F-111A AF32A- | ICE/SU NOIS | E SOURCE/SUBJECT: F-111A NOISE SUPPRESSOR AF32A-13 | COPER | DPERATION: IGLE POWER SINGLE EN GROUND RUI | ATION: IDLE POWER 66.9% RPH SINGLE ENGINE GROUND RUNUP (SUPPRE) | .9% RPH (Suppressed) | METEOROL TEM BAR MEL DELTA N | METEOROLOGY: TEMP BAR PRESS: REL HUMID: DELTA N = 0.0 | 29.92 70 | K H H H H H | | AIRCRAFT CODE OPERATION CODE PROFILE VERSION 26 NOV 79 PAGE J1 | CODE 779 Code 00113 Ersign A |
| | | | P=PNLT | LT | | 74=V | , | | | TEALT | | | |
| | | | • | • | | | | | | • | | | • |
| | : | • | • | • | • | • | • | • | • | • | • ' | | • |
| : | • • | • • | • • | • • | • • | • • | | • • | - < . | • • | • | | • • |
| 20 | • • - | • • | • • | • • · | • • | • • | | | ٠. | • • •- | | ٠. | • • |
| 30 | | • | • | • | • | • | • | • | . A . | • | • | • | • |
| 3 | •• | • • | • • | • • | • • | • • | | • • | ۲. | •• | • | ••• | • • |
| A 58 | • • | •• | • • | • • | • • | • • | | • • | ₽. | • • | ۵ | • • | • • |
| Z U | - 5 | • | • • | • | • | • | , | | • | • | a | • | • |
| ا د | : . | • | • | • | • | • • | • | • | | • • | • | • | • |
| E 70 | • · | • | • | • | • | • | | • | - 4 | • | ۵ | • | • |
| I 80 | | • • | • • | • • | • • | • • | | ٠. | . <u>.</u> | • • | ۵ | • • | • • |
| z | ٠. ٠ | • | • | • • | • | | • | • | A. T. | • | ه د د | • | • (|
| • | : • | • | • | • | • | • | • | | • | ••• | • | • | • |
| . 160 . 160 | | • • | • | • • | • | • | | • | AT . | • | ۵. | • | • |
| R 110 | | • • | • • | • • | • • | • • | | | AT. | • • | ۵ | • • | • • |
| E 120 | . : | • | • | • | • | • • | • | A.T. | • | • • | • | • | • |
| S 130 | •• | • • | • • | • • | • • | • • | - | . · | • • | • • | Q. | • • | • • |
| 140 | •• | • • | • • | • • | • • | • • | | - × | • • | • • | | | • |
| 150 | - 3 | | • | • • | • | • | • | | • • • • | . (| • | • | • |
| 160 | | • | • | • | • | • | | - | • | • • | • | • | • • |
| | • | • | • | • | • | • • | | | • • | • • | | •• | • • |
| 170 | • · | • | • | • | • | • | | .AT | • | • | | • | • |
| 180 | . : | • | • | • | • | • • | • | . AT | • | • | • | • | • |
| | _ { | • | • | • | • | • | 1 | • | • | • | | • | • |
| | • | | 3.0 | 6.7 | | | | | | | | | |

| | NORMALIZED 1/3 OCTAVE DISTANCE = | 10 _ | | SURE | SURE LEVEL | (08) | | | | | | | | | | DENTIF OMEGA TEST 7 | FICATION: 8.2 78-779-003 | 0 N t | |
|------------------------------|--|---------------|------------|------------------|---|--------------------------|------------|-----------------------|----------|---------------------------|---|--------------------------|---------------------------|------------|------------|--|--------------------------------|----------------------------|-------------------|
| S0U 111A 2A-1 | RCE/SUBJECT I NOISE SUPPRES 3 | r 4 Ressor | | OPER SI GR | OPERATIONS ENGINE RU SINGLE EN GROUND RU | AUNUP ENGINE RUNUP | . ~ ~ | S% RPH Suppressed) | | METE TEP BAS REL | METEOROLOGYS TEMP BAR PRESS REL HUNID DELTA N = | 574 58 = 29 10 = 0 | 929 | FIN HG | | AIRCRAFT OPERATION PROFILE V 28 NOV 79 PAGE C2 | w | CODE 7 CODE 0 ERSION | 779 00120 A |
| (BAND CENTER (FREQ (HZ) | 0 | 94 | 3E | 30 | 7 | 50 | 9 | ANGL O | | DEGREE 90 1 | ES) | 110 1 | 20 | 130 1 | 0 1 | 150 | 166 | 17.e | 180 |
| 20 | 72 | ス | 69 | 69 | 68 | 20 | 69 | 69 | 99 | 29 | 99 | 65 | 65 | 99 | 99 | 29 | 99 | 99 | 69 |
| D 00 | 75 | 7,2 | 44 | 22 | 72 | 72 | 2 2 | 70 | | 69 | 68 | 67 | 67 | 64, | 67 | 67 | 67 | 89 | 89 d |
| | . 60 | 2 % |) + ^ ~ | 2 M | 2.2 | 2.5 | * * * | 2.2 | 72 | 71, | 707 | , 69 | , 62 70 70 70 | , o . | | | , 60 90 | 69 | 69 |
| (125 | 7.8 | 92 | * | 2 | 12 | 22 | 4. | 23 | 12 | 20 | 69 | 29 | 99 | 99 | 29 | 29 | 99 | 99 | 63 |
| 166 | 9 | 62 | 52 | 2 | 7. | 22 | 73 | 72 | 70 | 69 | 29 | 65 | 29 | 29 | 29 | 29 | 99 | 99 | 99 |
|) | 92 | 20 | ب م م | 7 K | 22 | 72 | 7.7 | 7.2 | 0 6 | 2 0 | 6 9 | \$ G | 68 5.2 | & & & & | 9 o | 9 0 | 9 C | 2 6 | 60 |
| 315 | 9. | 2.2 | 7.7 | 2.2 | 2.9 | 69 | 99 | 89 | 29 | 29 | 99 | 6 6 | . 60 | 9 | 6 2 | 65.0 | 9 | . 0 . 0 | 6 |
| 004) | 25 | 92 | 99 | 29 | 99 | 69 | 6.8 | 29 | 99 | 99 | 69 | †9 | †9 | 63 | 63 | 63 | 63 | 63 | 63 |
| 200 | 92 | 22 | 29 | 99 | 9 | 29 | 29 | 99 | 65 | 65 | 9 | 63 | 65 | 7 9 | 9 | 63 | 63 | 29 | 29 |
| 989 788 | 5 K | 22 | 2 G | 7.1 | 67 65 | 5 5 5 | 0 4 9 4 | 8 4 4 4 | 9 M | 68 63 | 5 G 20 C | 5 G | 65 | \$ G | 2 0 | 61 8 | ð r | 5 5 5 | 5 7 7 4 |
| 1000 | 72 | : 7: | 49 | 63 | 3 | 63 | 62 | 62 | 62 | 61 | 61 | 9 | 09 | 29 | 25 | 20 | 7 | 5 | 21 |
| 1250 | 69 | 72 | 63 | 29 | 29 | 62 | 61 | 1 9 | 29 | 9 | 9 | 23 | 09 | 28 | 26 | 54 | 55 | 53< | 51< |
| 9000 | 69 | 72 | 64 | 9 2 | 23 | 9 9 | 654 | 644 | 63< | 63< | 624 | 614 | 63< | V 2 | 584 1 | 26. | 540 | 540 | 50 c |
| 2500 | | 2.5 | 2 2 | 2 2 | 22 | 72 | 71 | 20 | 9 | 68 | , <u>20</u> | , 66 66 | 6 6 | 65 | 4 19 | 26. 61 | , 9 6 50 | 55 | 1 0 0 d |
| 3150 | 68 | 20 | 69 | 99 | 68 | 29 | 99 | 65 | 65 | 99 | 63 | 63 | 65 | 62 | 53 | 26 | >16 | 544 | *6 * |
| 0034 | 72 | 72 | 73 | 72 | 11 | 68 | 68 | 68 | 29 | 29 | 29 | 99 | 68 | 65 | 62 | 23 | 26 < | 53< | 48 |
| 5000 | 9 5 | 12 | 71 | 0 (| 0, | 9 i | 68 | 29 | 67 | 29 | 99 | 99 | 67 | 49 | 19 | % | 52 | 21 | 0 (|
| 2 6 | 2 | . (| 7 0 | 2 0 | 8 | 2 0 | 2 9 | 6 | 2 | 5 | 2 | > | 6 | 7 . | n . | , , | ٠ د د | ۲ <u>.</u> | . t |
| | 2 5 | ٠ • | 2 , | 9 7 | 9 9 | 0 0 | 9 4 | 200 | ر د م | 9 5 | 0 1 | 9 5 | 3 | | 4 1 | 7 | 9 | \$ P | |
| 3 | ò | 0 | | ò | ò | ò | 0 | 0 | ŧ o | ? D | ? | 70 | 76 | T * | | ; | 7 | 9 | |
| COVERALL | 69 | 69 | 85 | 92 | 9 | 94 | ** | 63 | 82 | 81 | 80 | 90 | 0 | 62 | 7.8 | 7.8 | 82 | 7.8 | 7.8 |
| | | | | 1 | | | | | | | | | | | | | | ***** | |

XXXX = EXTRAPOLATED OR INTERPOLATED SPL

| (TABLE! | PERCE1 | VED NO | PERCEIVED NOISE LEVE | | (PNDB) | | | | | | | | | | |) IDENTI | IDENTIFICATION | TIONS | |
|--|--------|-------------|----------------------|----------|---|----------|---|-------------------------|-------------|-------|--|----------------|------------------------|--------|------|---|----------------|-----------------------|--------------|
| | AS A | FUNCTION OF | <u>.</u> | ų, | - | DISTANCE | FROM S | SOURCE | | 1 | | | i | | | TEST | | 78-779-801 | |
| (NOISE SOURCE/SUBJECT F-111A NOISE SUP AF32A-13 | A NO | SUBJECT: | SUPPRESSOR | | OPERATION ENGINE SINGLE GROUND | ! | RUNUP 75% ENGINE RUNUP (SU | 75% RPH (Suppressed) | M ESSED) | 2000 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | * 59 *29.92 * 78 | Z Z Z | | AIRCRAF OPERATI PROFILE 26 NOV | | C00E C00E RSION | 779 00120 |
| (DISTANCE (FEET) | | 97 | 10 20 | 36 | 3 | 50 | 99 | 2 | ANGLE | | OEG4EES) | 110 | 120 | 130 | 240 | 158 | 168 | 170 | 190 |
| 500 | 101.6 | 102.0 | 100.0 | | 97.8 | 97.6 | 96.9 | 96•1 | 95.3 | 94.6 | 93.9 | 93.4 | 93.6 | 91.7 | 89.8 | 67.9 | 86.3 | 85.7 | 94.7 |
| (250 | 98.8 | 99.8 | 1 | | 95.5 | 95, 3 | 94.6 | 93.8 | 93.0 | 92.3 | 91.6 | 91.1 | 91.4 | 89.4 | 87.5 | 85.6 | 94.0 | 63.4 | 82.5 |
| 315 | 96.5 | 97.5 | 95,3 | | 93.2 | 93.0 | 92.2 | 91.4 | 90.7 | 69.6 | 2.68 | 88.6 | 89.0 | 87.0 | 82.0 | 63.3 | 91.7 | 61.1 | 80.2 |
| 9 | 94.1 | 95.1 | | 92 | 200 | 90.0 | 60 C | 3.69 | 290 | 87.4 | 200 | | 56.5 | \$. t | 82.6 | 64.9 | 79°3 | 78.8 | 6.22 |
| | 91. | 95.6 | 90.3 | 6 | 0 d | 88.0 | 87.2 | 85.4 | 65.4 | 6.0 | 4 4 | 63° 4 | 63.0 | 61.9 | 30.7 | 7863 | 76.8 | 76.3 | 75.5 |
| 000 | 86.4 | 87.3 | 9 to 8 | 84.4 | 62.6 | 62.5 | 81.7 | 90.0 | 80.1 | 79.3 | 78.5 | 77.8 | 78.3 | 76.4 | 7:1 | 72.9 | 1:2 | 70.0 | 69.9 |
| | 1 | | | | : | 1 | , | 1 | , | | , | | 1 | ! | | ; | | | |
| 1066 | 83.5 | 97. | 81° | 81.5 | 7.9.6 | 79.5 | 78.6 | 77.8 | 77.0 | 76.3 | 75.5 | 7.57 | 75.3 | 73.4 | | 78.0 | 68.5 | 67.8 | 6.99 |
| 1250 | 4 . | 81.0 | 7 00 | 7 8. 3 | % c | 76.2 | 12. | 9 . | | 3.0 | 72.2 | 4 | 72.1 | 70.2 | 66.5 | e . | 2.59 | 64.5 | 93.6 |
| | 72.6 | 74.5 | 200 | 7.5 | 0 0 0 0 | 200 | 6 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 67.2 | 9 4 | 5 Y 5 | 000 | , t | 66.0 | 60.0 | | 50° Z | 61. F | 24.6 | 24.0 |
| 2500 | 69.7 | 70.6 | 9 | 67.2 | 6.0 | 66.5 | 63.7 | 62.9 | 62.0 | 61.2 | 66.4 | 59.6 | 60.3 | 50.4 | 56.6 | 24.0 | 53.B | 52.9 | 51.5 |
| 3150 | 65.3 | 66.2 | 62. | 62.7 | 59.7 | 59.6 | 58.8 | 57.9 | 57.1 | 56.2 | 55.3 | 54.2 | 55.3 | 53.4 | 51.5 | 51.1 | | 40.0 | 40.4 |
| 0004 | 60.3 | 61.2 | | 57.6 | 54.4 | 54.1 | 53.2 | 52.4 | 51.4 | 50.6 | 50.0 | 49.6 | 49.3 | 47.1 | 45.4 | 44.2 | 43.0 | 42.2 | 40.6 |
| 2000 | 54.8 | 55.8 | 5 | 51.6 | 48.3 | 47.5 | 46.4 | 42.4 | 44.8 | 44.3 | 43.9 | 43.6 | 42.3 | 40.5 | 39.5 | 37.9 | 36.4 | 35.7 | 34.0 |
| 6368 | 40.6 | 40.4 | | 44.7 | 40.7 | 39.7 | 39.3 | 38.9 | 38.2 | 37.8 | 37.5 | | 35.2 | 33.3 | 31.9 | 31.1 | | 25.1 | 25.4 |
| 8008 | 43.6 | 43.2 | | 36.8 | 33, 1 | 33.9 | 33.1 | 32.7 | 32.3 | 31.9 | 31.6 | 30.8 | 29.5 | 25.6 | 23.2 | 25.2 | 21.2 | 28.8 | 19.0 |
| 10000 | 37.7 | 37.4 | 26.6 | å | 24.7 | 25.0 | 24.1 | 24.0 | 23.7 | 23.5 | 23.4 | | 16.2 | 15.9 | 16.9 | 13.9 | 12.9 | 18.3 | 9.6 |
| 12500 | 31.3 | 30.4 | 16. | 19,3 | | 15.7 | 14.3 | | 14.2 | 14.1 | 12.0 | 12. 8 | 10.0 | 7.2 | 9:0 | 2.6 | | | |
| 16409 | 23.8 | 21.6 | | 8 | | 6.5 | 4.5 | 4.7 | 4.7 | 4.6 | 2,1 | | 1.7 | | | | | | |
| 29000 | 11.8 | 9.1 | | | | | | | | | | | | | | | | | |
| 25000 | | | | | | | | | | | | | | | | | | | |
| • | | | | | | | 1 | | | | | | | | | | | | |

| | 2 | FUNCTION | 5 | ANGLE A | AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | |) OMEGA) TEST 7 | OMEGA 8.2 TEST 78-779-001 | 9-001 | |
|------------------------------|------------------|--------------------|------------|---------|--|----------|--------------------------|-------------------------|-------------|----------------------|--|---------------------------------|------------------------|---|------|---|---|--|--------------|
| NOISE SOU F-113 AF 32/ | E SOURCE/SUBJECT | UBJECTA SE SUPP | SUPPRESSOR | | OPERATIONS ENGINE SINGLE GROUND | ! | RUNUP ENGINE RUNUP | 75% RPH (SUPPRESSED) | # ESSED) | Σ Ö | HETEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS PRESS HUMID * 3. | = 59 =29.92 = 70 | A N N N N N N N N N N N N N N N N N N N | | AIRCRAF OPERATI PROFILE 28 NOV | AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE E2 | FT CODE 7 ION CODE 0 E VERSION 79 | 779 00120 |
| OISTANCE (FEET) | | 10 20 30 | 92 | 36 | 3 | 50 | 0.9 | 7.0 | ANGLE 80 | E (DEGREES 90 100 | REES) | 977 | 120 | 130 | 140 | 150 | 160 | 170 | 186 |
| 200 | 103.1 | | - | 161. | 9 % | 99.1 | 98.3 | 97.4 | 96.6 | 699 | 95.5 | 95.2 | 93.8 | 21.7 | 90.8 | 0.69 | | 86.3 | 85.5 |
| 250 315 | 100.9 | 161.2 98.9 | 99.7 | 99,3 | 97.1 | 96.8 | 96.0 | 95.1 | 94.3 | 93.6 | 93.2 | 92.9 | 91.4 | 67.3 | 88.5 | 84.4 | 82.3 | 84.1 | 83.3 |
| 4 | 96.2 | | | 6 | 92.2 | 92.0 | 91.1 | 90.3 | 89.5 | 80.00 | 86.3 | 87.9 | 86.5 | 4.40 | 83.7 | 82.0 | | 79.5 | 78.7 |
| 510 | 93.7 | | | 92 | 89.7 | 89.4 | 88.6 | 87.8 | 86.9 | 66.3 | 85.7 | 85.2 | 83.8 | 81.9 | 81.1 | 79.5 | | 77.0 | 76.3 |
| 930 | 91. | | | | 87.0 | 86.8 | 85.9 | 85.1 | 2.40 | 5 3. 1.0 | 83.0 | 82,5 | 81.1 | 79.2 | 78.5 | 76.8 | | 74.3 | 73.6 |
| 9 | * | 0 | 000 | | 04.1 | D • 50 | 1 .50 | 82.2 | * * * * * * | 0.00 | H . | 9.6 | 5 . 6 | • | 2.6 | • | | (1.5 | |
| 1000 | 85.5 | 85.9 | 83.8 | | 81.1 | 80.9 | 80.3 | 79.2 | 78,3 | 77.6 | 77.1 | 70.5 | 75.3 | 73.4 | 72.7 | 71.1 | | 68.5 | 67.7 |
| 1250 | 82.5 | 85.8 | 80.6 | _ | 77.8 | 77.6 | 76.8 | 75.9 | | 74.3 | 73.8 | 73.2 | 72.1 | 70.2 | 69.5 | 67.9 | 60 | 65.2 | 64.4 |
| 16.0 | 79.2 | 79.5 | 77.1 | | 74.3 | 74.1 | 73.3 | 72.4 | | 76.8 | 70.2 | 69. 7 | 68.5 | 66.6 | 66.0 | 64.3 | m | 61.5 | 60.6 |
| 2300 | 75.7 | 76.0 | 73.2 | 73.6 | 7.0.4 | 70.3 | 69.4 | 68.5 | 67.6 | 66.9 | 66.3 | 65.7 | 9.49 | 62.8 | 62.1 | 60.4 | 58.6 | 58.0 | 56.8 |
| 2540 | 7.1.8 | 72.0 | | _ | 66.1 | 99 | 65.1 | 64.2 | | 62.6 | 62,6 | 61.4 | 60.3 | 58.4 | 9.76 | 55.9 | 4 | 53.6 | 52.3 |
| 3150 | 67.3 | 67.6 | 6 | _ | | 61.1 | 60.2 | 59.3 | | 27.6 | 56.9 | 56.5 | 55,3 | 53.4 | 52.5 | 51.1 | s | 48.6 | 47.2 |
| 7004 | 62.0 | | 58 | 59.4 | 22,7 | 55.2 | 54.3 | 53.4 | | 51.7 | 51.3 | 51.1 | 49.3 | 47.1 | 46.2 | 45.1 | 2 | 42.7 | 41.2 |
| 2000 | 56.1 | 50.6 | 52.1 | _ | | 48.3 | 47.2 | 46.2 | | 45.1 | 6.44 | 44.6 | 42.3 | 40.5 | 39.8 | 36.6 | ~ | 36.1 | 34.4 |
| 6300 | 4 3° 4 | 54.0 | 44.6 | _ | | 40.3 | 39.8 | 39.5 | | 38.4 | 38.1 | 37.5 | 35.2 | 33.3 | 32.3 | 30.6 | ~ | 26.0 | 25.7 |
| 9000 | 44.0 | 43.5 | 36.0 | _ | 33.4 | 34.2 | 33.4 | 33.0 | 32.5 | 32.2 | 31.9 | 31.2 | 23.2 | 25.6 | 23.4 | 22.4 | m | 20.5 | 19.2 |
| 16300 | 37.7 | 37.4 | 26.6 | ő | 24.7 | 25.3 | 24.1 | 24° L | 23.7 | 23.5 | 23.4 | 22.6 | 18.2 | 15.9 | 14.9 | 13.9 | 6 | 10.3 | 9.4 |
| 12560 | 31.3 | 33.4 | | 19.3 | * | 15.7 | 14.3 | 14.3 | 14.2 | 14.1 | 12.8 | 12.8 | 10.0 | 7.2 | 9.9 | 5.6 | 4.6 | 5 | |
| 16000 | 23.8 | 21.6 | ŝ | • | 1.9 | 6.5 | 4.5 | 4.7 | 4.7 | 4.6 | 2.1 | 3.6 | 1.7 | | | | | | |
| 23430 | 11.8 | 9.1 | | | | | | | | | | | | | | | | | |
| 254.00 | | | | | | | | | | | | | | | | | | | |

| (TABLE! | A-WEIG | A-WEIGHTED OVERALL | VERALL | SOUND | LEVEL | (08A) | | | | | Ĭ | | • | | 1 | LOENT | : :: | ION | |
|--------------------|--------|--------------------|--------|-------|--------------------|---|----------------------------|-------------------------|-------------|-----------|--|------------------|----------------------------|---|------------|-----------------------|---|---------------------------|-----------------------|
| | ⋖ | FUNCTION OF | | E | 9 | DISTANCE | FROM SC | SOURCE | | | | | | | | TEST (| 78-77 | 9-011 | ~ ~ ~ |
| NOIS | A NO | SUBJECT & | RESSOR | 1 | OPE RA RESIDENT | RATIONI ENGINE S SINGLE GROUND P | RUNUP 7 ENGINE RUNUP | 75% RPM (Suppressed) | SSED) | | METEOROLOGY TEMP BAR PRE REL HUR DELTA N = | OGY: PRESS HUMID | = 59.92 = 29.92 = 70 | A N N N N N N N N N N N N N N N N N N N | | AIRC OPER PROFE | AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE F2 | CODE 0 CODE 0 RSION | 79) 0120) A) |
| (DISTANCE (FEET) | 9 | 10 | 20 | 30 | 7 | 50 | 9 | 6.7 | ANGLE 8J | , | (DEGREES) | 110 | 120 | 130 | 140 | 150 | 169 | 170 | 180 |
| (230 | 86.2 | 87.4 | 85.0 | _ | તં | 82.1 | 81.4 | 80.8 | 2 | 7.67 | 79.2 | 78.7 | 78.9 | 7.97 | 8.4.2 | 74 | 71.9 | 71.2 | 78.3 |
| 250 | 94.0 | 85.2 | 82.7 | 82.4 | 80.6 | 79.7 | 79.1 | 78.5 | 77.9 | 77.4 | 76.9 | 76.4 | 76.6 | 74.4 | 72.5 | 70.9 | 69.8 | 1.69 | 68.2) |
| 1004 | 79.6 | 90.0 | 77.9 | | 3 | 75.0 | 74.3 | 73.7 | ٠ - | 72.5 | 72.0 | 71.5 | 71.8 | 69.7 | 68.0 | - 10 | 65.5 | 64.8 | 64.0 |
| 909 | 77.2 | 78.3 | 75.4 | | m | 72.5 | 71.8 | 71.2 | 1 0 | 70.0 | 69.5 | 69.3 | 69.3 | 67.3 | 65.6 | ~ | 63.2 | 62.6 | 61.8) |
| 630 | 74.8 | 75.9 | 72.8 | _ | 70.6 | 69.9 | 69.2 | 68.6 | σ | 67.4 | 66.8 | 66.3 | 66.7 | 64.8 | 63.1 | • | 60.8 | 60.2 | 69.5 |
| 000 | 72.4 | 73.4 | 70.1 | _ | | 67.3 | 9 • 9 9 | 62.9 | m | 2.49 | 64.2 | 63.6 | 64.0 | 62.1 | 9.09 | m | 58.4 | 57.8 | 57.1 |
| | 6.04 | 7.1.8 | 57.3 | 67.3 | 4.4 | 5.4.5 | 4 | 6.1.3 | 4 | 9 | 7 | 9 | 6 4 9 | 1 | a | | | 2 | 24.5 |
| 1250 | 67.2 | 66.8 | 64.3 | | 1 | 61.6 | 6.09 | 60.3 | 59.6 | 59.1 | 56.5 | 56.0 | 58.2 | | ٠ | . 6 | 53.1 | 52.6 | 51.9 |
| 1600 | 64.5 | 65.2 | 61.2 | _ | | 58.6 | 57.9 | 57.3 | 56.7 | 56.1 | 55.6 | 55.0 | 55.2 | 53.6 | m | · = | 50.3 | 69.8 | 49.0 |
| 5000 | 61.6 | 62.2 | 57.9 | - | ś | 55.5 | 54.8 | 54.5 | 53,6 | 53.0 | 52.5 | 52.0 | 52.0 | 50.5 | m | 8 | 47.4 | 46.9 | 46.1) |
| (2500 | 58.5 | 58.9 | 54.3 | • | ູລໍ | 52.1 | 51.5 | 50.9 | 50,3 | 49.8 | 49.3 | 48.8 | 48.6 | 47.2 | -4 | | 44.2 | 43.6 | 42.8) |
| 3150 | 55. | 55.3 | 50.4 | _ | ÷ | 49.4 | 47.8 | 47.3 | 46.B | ŝ | 45,9 | 45.5 | 45.0 | 43.7 | rv. | ĸ | 40.6 | 40.0 | 39.1) |
| 0004 | 51.2 | 51.4 | 46.2 | | | * | 60° | 400 | 6.24 | å, | 45.4 | 41.7 | 41.1 | 39.8 | φ, | ، ب | 36.7 | 36.0 | 35.1 |
| 9986 | 10,5 | , C4 | 0 Y | | 5 w | 35.3 | | 34.4 | 2000 | | 27.0 | 20.0 | • | 20.0 | ი « | ? 4 | 32.4 | 31.0 | 26.2. |
| 90000 | 38.5 | 38.1 | 32.1 | 32.8 | 31.0 | 31.1 | 30.7 | 30.3 | 29.9 | 29.6 | 29.3 | 29.0 | 28.0 | 26.9 | | | 24.2 | 23.5 | 22.7 |
| _ | | | | | | ı | | | | | | | | | | ı | ! ! | | |
| 10900 | 34.3 | 33.6 | 27.5 | 28.5 | 26,5 | 26.8 | 50.4 | 26.1 | 25.7 | 25.4 | 25.1 | 24.8 | 23.7 | 22.7 | σ | ~ | 20.3 | 19.7 | 19.0 |
| 12500 | 29.7 | 29.0 | 22.8 | _ | ÷ | 22.3 | 21.9 | 21.6 | 21.2 | 20.8 | 20.6 | 20.3 | 19.1 | 16,3 | S | • | 16.2 | 15.5 | 15.0 |
| 160.0 | 24.8 | 24.0 | 17.8 | _ | ق | 17.5 | 17.0 | 16.7 | 16.3 | 15.9 | 15.6 | 15, 3 | 14.2 | 13.5 | 12.8 | 12.2 | 11.6 | 11.1 | 10.7 |
| 20000 | 19,5 | 18.8 | 12,6 | - | 11.6 | 12.3 | 11.8 | 11.4 | 11. ú | 10.5 | 10.2 | 6°6 | 8.9 | 8.2 | ~ | cu | 9 | † | 6.1 |
| 25000 | 13.7 | 13.2 | 7.1 | _ | 6. | 7.0 | 9. | 5. 8 | 5.3 | £. | 4.3 | 3,9 | 3.1 | 2.7 | m | 6 | 1.6 | 1.3 | 1.2 |
| | | | | | | 1 | | | | | | | | | | | | | |

| | AS A F | A FUNCTION OF | | ANGLE A | AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | |) OMEGA | 54 6.2 78-779-001 | 9-001 | |
|--|------------------|---|------------------|------------|-----------------|---------------------------------------|--------------------------|--------------------|-------------------------|--------|--|-------------------|---------------------------------|--------|------|-------------|---|-----------------------|--------------|
| SIO | RCE/SU A NOIS | BJECT1 | RESSOR | | OPERA S G | RATION: ENGINE SINGLE GROUND | RUNUP ENGINE RUNUP | 75% RPH (SUPPRE | 75% RPM (Suppressed) | 2000 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | LOGY: PRESS HUMID | = 59 = 29,92 = 70 = 08 | 9 F 16 | | D PROF | RUN BZ AIRCRAFI OPERATION PROFILE VE 28 NOV 79 PAGE GZ | CODE CODE RSION | 779 00120 |
| DISTANCE (FEET) | | 10 | 20 | 36 | 9 | 50 | 0.9 | 92 | ANGLE | | (DEGREES) 90 100 | 110 | 123 | 13. | 140 | 156 | 160 | 170 | 186 |
| 200 | 88.3 | 88.8 | 87.0 | | 84.4 | 83.5 | 82.8 | 82.1 | 81.5 | 81.1 | 80,08 | 80.5 | 78.9 | 76.7 | 75.8 | 74.2 | 72.5 | 71.8 | 71.0 |
| 250 | 86.1 | 96.6 | 84.7 | | 82.1 | 81.2 | 80.5 | 79.8 | 19.2 | 78.1 | | 78.1 | 76.6 | 74.4 | 73.6 | 72.0 | 70.4 | 69.8 | 69.0 |
| 312 | | 4.4 | 82. | | 7.67 | 78.8 | 78.1 | 77.4 | 76.8 | 76.3 | 76.0 | 75.7 | 74.2 | 72.1 | 71.3 | 69.8 | 68.3 | 9.19 | 66.9 |
| | 0 70 0 | 70.7 | 7 7 6 7 | | 2 . | * 6 | 12:1 | 100 | * • • | ••• | 73.6 | 7.5.3 | 7.9 | 2.69 | 69.0 | 67.6 | 66.1 | 65.5 | 64. |
| 630 | 76.9 | 77.3 | 7.4.8 | 75.0 | 72.1 | 71.4 | 70.6 | 6.0 | 2.6 | 6.86.8 | 5 4 C | 68. | 6.60 | 20.0 | 000 | 65.5 | 63.8 | 65.3 | 979 |
| 8.0 | 74.5 | 74.8 | 72.1 | | 69.4 | 68.7 | 68.0 | 67.3 | 9 • 9 9 | 66.1 | 65.7 | 65.4 | 0.49 | 62.1 | 61.6 | 60.4 | 59.0 | 56.5 | 57.9 |
| 6 | | • | • | | | ; | • | ; | | 1 | | | | | | | | | |
| 7 | 6.4. | 7.77 | ? · | , o | å | 90 | 2.5 | 6.0 | 63.0 | 63.3 | 53° | | 61.2 | 59.4 | 59.0 | 57.8 | 56.4 | 56.0 | 55.4 |
| 16.56 | | 6,40 | 9 6 | • | å, | 650 | 200 | 61.6 | 60.9 | 9 1 | 9 | | 58.2 | 56.5 | 56.2 | | 53.7 | 53,3 | 52.1 |
| 9 00 | 000 | 9 2 7 | 200 | • • | :. | 100 | 200 | 9 1 | 3 C | | | 20.0 | 22.5 | 53.6 | 53. | 52.3 | 50.9 | 50.5 | 6.6 |
| 9 00 00 00 00 00 00 00 00 00 00 00 00 00 | | 200 | 5 2 4 3 5 4 4 | 9 6 | ٥, | 200 | 200 | | , . | * | | 50° | 52.0 | 500 | 50.3 | 49° | 9.0 | 47.5 | 9 |
| 77 | | 66.3 | 9 0 | 2 " | . | 200 | 200 | 7.76 | 21.0 | 1.1 | | 9 C | | 47.2 | 47.1 | 16.1 | 44.0 | 44.3 | 43.6 |
| 0000 | | | , , | , v , v | : . | , i | 7. | 0 . 0 . | 4 0 |) · · | | 9 | 45. | F3.7 | 43.6 | 42.6 | 41.2 | 40.4 | 39 |
| | 1 M | 1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 10.0 | 4 4 4 | 0 | 100 | 7 6 | * 0 | \$ C | 2 0 | | 45.4 | 1,1 | 2. r | 2.00 | 36.5 | 37.1 | 36.6 | 35 |
| 63.59 | 43.3 | 42.9 | 37.4 | 8 8 | : , | × × | 7 2 | | 2 4 4 5 | 26.4 | | 2000 | | 000 | 200 | | , , , | 32.1 | 31. |
| 80.30 | 38.9 | 38.3 | 32.5 | 33,2 | 31,3 | 31.4 | 30.9 | 30.6 | 30.2 | 29.9 | 29.6 | 59.62 | 26.0 | 26.9 | 26.2 | 25.3 | 26.3 | 23.7 | 200 |
| • | | 1 | 1 | | | | | | | | | | | | | | : | | |
| 10200 | | 33.6 | 27.5 | 28.5 | 26.5 | 26.8 | 26.4 | 26.1 | 25.7 | 25.4 | 25.1 | 24.8 | 23.7 | 22.7 | σ | 21.1 | 20.3 | 19.7 | 19.0 |
| 14360 | 7.67 | 29.0 | 22.0 | | ÷ | 22.3 | 21.9 | 21.6 | 21.5 | 21.8 | 2,0,6 | 20,3 | 19.1 | 18.3 | Š | 16.8 | 16.2 | 15.5 | 15.0 |
| 16060 | 24.8 | 24.0 | 17.8 | | 16.9 | 17.5 | 17.0 | 16.7 | 16, 3 | 15.9 | 15.6 | 15, 3 | 14.2 | 13.5 | 12.8 | 12.2 | 11.6 | 11.1 | 13.7 |
| 20002 | 19.5 | 18.8 | 12.6 | | ä | 12,3 | 11.8 | 11.4 | 11.0 | 10.5 | 10.2 | 6.6 | 8.9 | 8.2 | ~ | 7.2 | « | 4 | 4 |
| | | | | | | | | | | | | | | ,,, | | | , | | |

| | OIS | DISTANCE | | - | | | | | | | | | 5 F | OMEGA 6.2 TEST 76-779-60 | 8.2 76-779-601 | Ħ |
|-------------|-------------------------------|------------|--|----------|--|--------------------------|-------------------------|--------------------------------------|----------|----------|-------------------------------|-------|------------|---|----------------------|--------------------------|
| NOISE S | SOURCE/ 1111A NG 32A-13 | YOUSE S | E SOURCE/SUBJECT: F-111A NOISE SUPPRESSOR AF32A-13 | | OPERATIONS ENGINE SINGLE GROUND | RUNUP ENGINE RUNUP | 75% RPH (Suppress=0) |) METEORO) 1EM) BAR) BERL | 1 _1 a. | S # 2 | 59 F 9.92 IN 70 X 08 | 9 | | RUN 82 AIRCRAFT CODE OPERATION CODE PROFILE VERSION 28 NOV 79 PAGE JZ | CODE ON CODE VERSION | E 779 E 00120 ON A |
| | • | | 7 0 0 0 0 0 0 0 0 | | P=PNL1 | | | A=AL | | | | T=ALT | | | | 1 |
| | | • | • | | | | | • | | | | • | | | • | <u> </u> |
| | - | ي | • | • | • | • | • | • | • | • | _ | • | • | • • | : | • |
| | 97 | • • | • • | | | | | . • | • • | | ⋖ | | | , a | • • | . ~ . |
| | 20 (| • • | •• | | | | • • | | ٠. | | . A T | • • | | ۰. | • • | |
| | - | • | • | • | | | | • | • | • | ¥ . | • | • | | • • | - 7 |
| | ; | • • | • | • | | • | • | • | • | • | | • | • | • | • | - |
| | 9 | • | • (| | • (| | • • | • • | • | | . A T | • • | ۵. | | • • | ~ ^ |
| 4 | 20 | • • | • • | | | | | | • | | AT | • | ۵ | • | • | - |
| 2 | | | • • | • | • | | | | • | 4 | • | • | • | • | • • | ^ 7 |
| ا بـ (| 3 | ! | | • | • | • | • | • | • | | • • • | • | • | • | • | _ |
| w | 0. | • | • | | • | • | • | • | • | 4 | - . | • | o . | • • | • ' | |
| H | 90 | • • | • • | | • • | | • • | | • • | AT | | • • | ۵ | | • • | _ |
| Z | 6 | • | • | | • | | • | • | • | * | | • | a | • | • | |
| ٥ | | • • | • | • | • | • | • | • | • | | • | • | • | • | • | • |
| w c | 100 | • | • | | • | | • | • | • | AT | • | • | ۵ | • | • | ~ ^ |
| . 02 | 110 | • • | • • | | • • | • - | • • | | • • | ⊢ | • • | • • | ۵. | | • • | |
| · W I | | • | • | | • | . • | • | • | • | ; | • | • | | • | • | ~ ^ |
| n w | 971 | • • • • | • | • | • | • | • | • | • | • X • | • | • | • | • | • • | • |
| | 130 | • | • | | • | • | • | • | • | × | • | å | | • | • | |
| | 140 | •• | • • | | • • | | •• | | | - | • • | •• | | •• | • • | |
| | | • | • | | • | • | • | • | | | • | • | | • | • | ~ - |
| | 2 | •• | • | • | • | • | • | • | - « . | • | • | • | • | • | • • • | • |
| | 160 | • | • | | • | • | • | • | × | | • | • | | • | • | ^ |
| | 170 | • • | • • | | • • | • • | • • | • • | . F | | ۵. | • • | | •• | • • | _ |
| | 6 | ٠. | • | | | | • | | | , | 9 | • | • | • | • (| - 7 |
| | 304 | •• | • | • | • | • | • | • | • | • | | • | • | • | • | • • • |
| | - | 97 | | | 98 | | | | 7.0 | | 80 | 5 | | 1 00 | 110 | <u> </u> |

| ISTO | H (| 256 | FEET | | 1 | | | ļ | | | | | | | | OMEGA TEST 7 | 8.2 78-779-0 | -007 | |
|--------------------------|------------|-----------------------|------------|------------|---|-------------------------------------|--------------------|--------------------------|--------------|--------|---|------|-------------|---------------|------------|--|-----------------|--------------------|-------------------|
| EV IS | i | BJECT : SUPPRESSOR | ~ | OPER SI | PERATIONS MILITARY SINGLE EN GROUND RU | H LY PONER ENGINE RUNUP (S | ER 96 E (SUP | R 96.5% RP (Suppresse | RPH) | ᆙᇛᅩᇛᄯᄁ | EOROLOGY EMP AR PRESS EL HUMID | | 29.92 70 | F IN HG | | AIRCRAFT OPERATION PROFILE 28 NOV 79 PAGE C3 | 750 | 00E 00E SION | 779 00164 A |
| BAND GENTER FREQ (HZ) | 9 | 97 | 20 | 30 | 6 | 20 | 69 | ANG | , w & | 0E646 | EES) 100 | 116 | 120 | 136 | 3 | 150 | 160 | 170 | 180 |
| 20 | 92 | 77 | 7.8 | 77 | 77 | 77 | 77 | 76 | 76 | 75 | 7.3 | 7.7 | 76 | 76 | 7.7 | 7.7 | 7.8 | 79 | 4 |
| . W | 22 | 28 | 2 | 78 | 78 | 7.8 | . 22 | 2.2 | 2.2 | 92 | 7.0 | 75 | 2.5 | 7.0 | 75 | 75 | 2 | 26 | 9. |
| 80 | 28 | 79 | 90 | 81 | 83 | 83 | 83 | 83 | 83 | 80 | 11 | 78 | 78 | 7.8 | 7.8 | 7.8 | 78 | 11 | 92 |
| 100 | 80 | 81 | 82 | 85 | 82 | 81 | 18 | 81 | 10 | 8 | 9 | 19 | 79 | 79 | 19 | 28 | 92 | 92 | 79 |
| 125 | © (| 90 | 81 | 80 | 0 t | 80 | 62 | 623 | 80 6 | 77 | 22 | 21 | 92 | 92 | 76 | 9.4 | 92 | *; | 7.3 |
| 190 200 | 9 6 9 6 | 60 60 50 60 | t t 0 0 | • • • | . . | ၇ ဆ ဝ ဆ | 26 84 | 9 6 | 0 e0 | 8 2 | † 6 7 | C 15 | 9 7 9 7 | 8 | 9 9 | 9 6 | 9 2 | 2 2 | 22 |
| 250 | 83 | 84 | 96 | 85 | 85 | 82 | 40 | 94 | 83 | 82 | 80 | 90 | 81 | 8 | 79 | 77 | 16 | 75 | 75 |
| 315 | 4 | 48 | 85 | 48 | 84 | 83 | 82 | 81 | 18 | 79 | 2.8 | 78 | 78 | 11 | 92 | 22 | 7.4 | 73 | 7.1 |
| 07 | 82 | 83 | 40 | 8 | 82 | 82 | 19 | 90 | 80 | 79 | 7.8 | 77 | 77 | 16 | 92 | 12 | * | 73 | 72 |
| 200 | D (| 10 | 29 | 0 4 0 4 | | 20 0 | 1 • | 7 . 80 a | 3 0 0 | 78 | 9 ; 2 | 77 | 22 | 77 | 9,4 | £ # | 2 2 | * ; | 2 4 |
| 9 00 00 | 7 4 | 9 2 | | | 8 C |) 4 () | 4 60 | 4 2 | 9 60 | 78 | | 7 2 | 92 | . 2 | \$ C | . K | 72 | . C | 9 |
| 1000 | 62 | 81 | 10 | 83 | 83 | 82 | 81 | 79 | 8 | 92 | 2 | 23 | 72 | 17 | 7.0 | 69 | 99 | 99 | 49 |
| 1250 | 78 | 79 | 80 | 80 | 80 | 79 | 11 | 92 | 75 | 74 | 73 | Z | 69 | 69 | 68 | 99 | 99 | 65 | 63 |
| 1600 | 92 | 78 | 43 | 62 | 79 | 78 | 11 | 92 | 75 | 74 | 73 | 17 | 70 | 69 | 69 | 99 | 99 | 29 | 99 |
| 2000 | 4 | 90 | 81 | 90 | 9 | 6 | 29 | 7.8 | 78 | 77 | 16 | 75 | 15 | * | 73 | 72 | 2 | 72 | 72 |
| 2200 | -1 c | 1 1 | 1 0 1 | + c | 3 ; | Z ; | 2 ; | : | ۶; | 2; | 2 ; | 2 ; | 2; | 2; | 2 | 2 | 70 | ٥; | 5 (|
| 9776 | 0 < | . 0 | 0 5 | 0 5 | 2 2 | - « | 0 K | 5 2 | * v | 2 % | . v | 7 2 | 2 2 | - ^ - ^ | . . | 1 5 | 1 5 | 0 O | 9 G |
| 5000 | 2.2 | 12 | 82 | 22 | 26 | 2.0 | 2 | 7.6 | 2 2 | 7 - | e (| 7.2 | 7.2 | 9 | 67 | 9 | 9 | 6.5 | 9 |
| 6300 | * | 92 | 77 | 92 | 92 | 12 | 22 | 2 | 23 | * | 75 | 23 | 7 | 9 | 69 | 62 | 50 | 57 | 20 |
| 9990 | 75 | 75 | 92 | 92 | 92 | 75 | 73 | 72 | 12 | 72 | 72 | 69 | 29 | 9 | 61 | 20 | 52 | 53 | 20 |
| 10000 | 7. | 7.4 | 7.4 | 7. | * | 73 | 7.1 | 20 | 68 | 68 | | 65 | 63 | 23 | 26 | 25 | 9 | 9 | * |
| | | | | | | | | | | | | | | | | | | | |

| | AS A F | A FUNCTION OF | | W | AND DIS | DISTANCE | FROM SI | SOURCE | | | | | | | |) OHEGA | OMEGA 8.2 TEST 78-779-001 | 9-001 | |
|--------------------|----------|---------------|-------|------------|--------------------------------|------------------------------------|--|-----------------------------|-----------------|------|---------------------|--|-------------------------|---|-------------|---------------------------------------|--|-----------------------|---------------------|
| NOISE SO | A NO -13 | i 🖱 | RESSO | g | OPERATIONS SINGLE GROUNG | TIONS TILITAR INGLE ROUND | RATION: MILITARY POWER SINGLE ENGINE GROUND RUNUP (SI | K 96.5% RPH (SUPPRESSED) | X RPH ESSED) | | | TEOROLOGY: TEMP BAR PRESS REL HUMID | = 59 = 29.92 = 70 | 2 F F F F F F F F F F F F F F F F F F F | i i i | P P P P P P P P P P P P P P P P P P P | RUN 03 AIRCRAFT (OPERATION (PROFILE VEI 26 NOV 79 PAGE 03 | CODE CODE RSION | 779 00104 A |
| DISTANCE (FEET) | | 10 | 8 | 96 | 3 | 50 | 9 | 7.0 | ANGLE | | (DEGREES) 90 100 | 110 | 120 | 138 | 140 | 150 | 160 | 170 | 180 |
| 200 | 107.2 | 107.9 | 108.6 | | me | 107.4 | 10 M | 105.7 | 164.9 | | 103.6 | 102.5 | | 181.7 | | 102.6 | 103.3 | 99.3 | 96.4 |
| 315 | 162.7 | 163.4 | | 163.9 | | | | - 129 | | , IV | 6.96 | 97.8 | 97.0 | 97.2 | | - | 90.0 | 9.0 | 91 |
| 2 C | 100.3 | 101. 98.5 | - | 191 986 | M 40 | | + m | 96.0 | 97.7 | | 900 | 95.3 92.8 | | 94.8 | 95.2 | 95.0 | 96.5 94.0 | 1.26 | 89.5 |
| 630 | 95.2 | 95.9 | 96 | | N | | | | 92.5 | | 91.0 | 90.2 | | 89.7 | 90.2 | | 91.5 | 4.20 | 84.6 |
| 9 | 92.5 | 93.2 | | m | 10 | | | | 89°8 | _ | 88.2 | 87.4 | | 87.0 | 4.78 | | 88.8 | 84.7 | 11. |
| 1000 | 89.5 | 93.2 | 91.0 | 90.7 | 90.6 | 9.69 | 88.6 | 87.8 | 87.0 | 85.9 | 85.2 | 84.5 | 83.8 | 84.1 | 84.6 | 85.2 | | 61.9 | 79.1 |
| 1250 | 86.4 | 87.1 | 87.8 | | 87.4 | 86.4 | 85.5 | 84.7 | 83, 9 | 85.8 | 82.0 | 81.3 | 2.09 | 81.1 | 81.5 | 82.1 | | 78.8 | 9. |
| 1600 | 9 ° 0 | 63.7 | 8 . 5 | 94.2 | # 6 6 | 83.1 | 82.2 | 81.4 | 90.6 | 6.6 | 9.6 | 7.9 | 77.3 | 77.6 | 79.7 | 78.7 | 79.5 | 75.5 | 72.9 |
| 25.00 | 7 50 4 | 76.1 | 76.9 | : 4 | 7 6. 8 7 6. 8 | 75.8 | 76.8 | 7.0 | 73.2 | 70.0 | | 70.5 | 70.0 | • • | 70.7 | 71.1 | | 67.6 | 65 |
| 3150 | 71.5 | 72.2 | 73.0 | 2 | 72.9 | 71.9 | 20°9 | 6 69 | 69.1 | 67.6 | 66.5 | | 66.1 | | 65.7 | 66.4 | | 63.0 | 9 |
| 00.04 | 67.2 | 67.9 | 68.7 | å | 68.6 | 67.6 | 66.5 | 65.6 | 64.6 | 62.6 | 61.5 | | 61.6 | 60.8 | 60.5 | 61.1 | 61.9 | 9.26 | 50 |
| 2000 | 65.5 | 63.3 | 64.0 | ÷ | 64.0 | 63.0 | 61.9 | 60.8 | 59.8 | 57.6 | 56.0 | 55.9 | 56.5 | 55.1 | | 55.1 | 55.8 | 51.5 | 64 |
| 6300 | 57.4 | 58.5 | 59.0 | ė | 58.9 | 57.8 | 56.6 | 55.5 | 54.4 | 55.2 | 6.6 | 50.1 | 50.9 | 50.1 | 49.3 | 49.4 | ₽ 9 • | 45.3 | 43. |
| 8000 | 52.7 | 53.5 | 54.3 | ÷ | 54.3 | 53.2 | 51.9 | 58.9 | 49.7 | 47.0 | 44.6 | 45.1 | 46.2 | 45.2 | | 43.3 | 45.4 | 40.1 | 38. |
| 10000 | 47.6 | 49.4 | 49.2 | 6 9 | 49.2 | 48.0 | 46.8 | 45.4 | 44.2 | 41.5 | 30.9 | 39.6 | 40.7 | 39.6 | 38.7 | 37.4 | 36.3 | 33.6 | 31.2 |
| 12500 | 41.1 | 41.9 | 42.9 | 45 | 43.0 | 41.5 | 40.3 | 39.4 | 38.2 | 35.5 | 32.7 | 33.0 | 34.2 | 33. | 31.5 | 30.5 | 28.7 | 26.8 | 2 |
| 16000 | 33.9 | 34.4 | 35.6 | 35 | 36.2 | 35.0 | 34.9 | 33.1 | 32.2 | 28.5 | 24.5 | 25.2 | 26.6 | 25,3 | 24.1 | 22.8 | 21.6 | 16.3 | 14.9 |
| 20030 | 24.1 | 25.4 | 27.4 | N | 28.8 | 26.7 | 25.4 | 23.7 | 22.4 | 17.6 | 12.7 | 15.3 | 16.6 | 14.3 | 13.1 | 11.0 | 9.1 | 9. | 'n |
| | | | | | | | | | | | | | | | | | | | |

| MOTOR COMPONING STORY | | | þ | W. | AND DI | DISTANCE | FROM | SOURCE | | | | | | | |) TEST | 1 78-779- | 100-67 | |
|-----------------------|-----------------|--------------------|-------|-------|-------------|--|-----------------|-------------------|-----------------------------|---------|--|---------|-------------------------|--|----------|--------|---------------------------------------|--------|----------------|
| F-11: | CE/ NO 13 | JBJECTI SE SUPE | SS | a o | 0 | ERATION: MILITARY SINGLE EN GROUND RU | ENGINE RUNUP | ER 96.5 (SUPPR | R 96.5% RPM (SUPPRESSED) | | HETEOROLOGY TEMP BAR PRE REL HUM DELTA N # | i - XG | = 59 = 29,92 = 70 | 20 F F S S S S S S S S S S S S S S S S S | | PROFES | AIRCRAFT OPERATION PROFILE VE PAGE E3 | 뭐뭐집 | 779 00104 |
| DISTANCE (FEET) | | 10 20 | 2.0 | æ | Ş | 58 | 99 | 5, | ANGLE | - 0. | DEGREES) | 110 | 120 | 130 | 1,50 | 150 | 160 | 176 | 183 |
| 206 | 108.4 | | 103.6 | 10 0. | 106.9 | 108.0 | 107.1 | 106.3 | 105.5 | * | 104.2 | 102.5 | | | | | 107.2 | 101.2 | 98.4 |
| 250 315 | 106.2 | 105.7 | 106.4 | 163.9 | 166.6 | 105.7 | 104.8 | 104.0 | 103°2 | 101.9 | 101.8 99.4 | 100.2 | 99.8 | 100.0 98.5 | 102.0 | | 104.9 | 99.0 | 96.1 |
| | 101.5 | 161.0 | • | 101 | 101.9 | 100.9 | 100.0 | 99.1 | 96.3 | 97.9 | 96.9 | 95, 3 | . ~ | | - | | 100.3 | 94.3 | 91 |
| 200 | 99.0 | 98.5 | 99.2 | 99. | 99, 5 | 96.5 | 97.5 | 96.5 | 95.8 | 94.4 | 94.3 | 95.8 | _ | | _ | • | 97.9 | 91.9 | 89.1 |
| 638 | 96.4 | 95.0 | 9 5 | ٠ مُ | 6 9 6 | 95.9 | 6 . 6 | 93.0 | 93.1 | 91.7 | 91.5 | 90.2 | -4 1 | | . | | 95.3 | 69.3 | 96. |
| 2 2 0 | 43.0 | 93.2 | ¥ 5. | ÷ | 1 1 1 | 1006 | 1 . 26 | 31.6 | * | 6 e 5 e | 199 | * • / 8 | | | | - | 95.e | 0 | 8 2 8 8 2 8 |
| 1000 | 90.7 | | 91.0 | ë | 91.2 | 90.2 | 89.2 | 86.3 | 87.6 | 85.9 | 85.8 | 84.5 | 94.4 | 65.4 | 86.7 | 88.2 | 89.8 | 83.7 | 81.1 |
| 1250 | 87.6 | | 87.8 | | 8 8, 1 | 87.1 | 86.1 | 85.2 | 84.5 | 82.8 | 95.6 | 81.3 | 81.2 | 82.3 | 83.6 | 65.1 | | 80.7 | 78.1 |
| 1600 | 84.2 | | 84.5 | ; | 94.7 | 83.7 | 82.7 | 81.9 | 81.2 | 79.5 | 79.1 | | 77.9 | 78.9 | 84.2 | 81.7 | | 77.3 | 7.6. |
| 2000 | 96.0 | | 9 0 | ė, | 81,1 | 80.1 | 79.2 | 78.4 | 77.7 | 75.0 | 75.5 | 5 t | 4.04 | 75.3 | 76.6 | 78.1 | 79.7 | 73.7 | 7 |
| 3150 | 7.5.6 | 72.2 | 73.0 | 72.9 | 73.6 | 72.5 | 71.5 | 78.50 | 69.4 | 2,5 | 67.0 | , o | 66.7 | 66.7 | 6,7,9 | 9 4 | 71.8 | 60,0 | 2 |
| 4000 | 68.1 | | 68.7 | | 69, 2 | 68.1 | 67.0 | 66.0 | 65.1 | 62.6 | 61.9 | 61.0 | 62.0 | 619 | 62.2 | 63.5 | 64.9 | 59.0 | 57.3 |
| 5000 | 63.2 | 63.3 | 64.0 | ; | 64.4 | 63.3 | 62.2 | 61.2 | 60.1 | 57.6 | 56.3 | 55.9 | 56.8 | 56.5 | 56.3 | 56.9 | 58.1 | 52.6 | 51. |
| 6300 | 57.9 | 58.2 | 59.0 | | 59.5 | 56.0 | 56.8 | 55.8 | 54.7 | 52.5 | 50.1 | 50.1 | 51.1 | 50.6 | 50.1 | 49.6 | 50.3 | 46.0 | 44.2 |
| 9009 | 53.0 | 53.5 | 54.3 | ÷ | 54.4 | 53.3 | 52.1 | 51.0 | 6 *6 * | 47.0 | 44.8 | 45.1 | 46.3 | 45.5 | 44.7 | 43.9 | 43.2 | 4.04 | 38 |
| 13000 | 47.6 | | 49.2 | | | 48.0 | 46.8 | | | 41.5 | 36.9 | | 40.7 | 39.5 | 39.7 | 37.4 | 36.3 | 33.6 | 31. |
| 12500 | 41.1 | | 42.9 | å | | 41.5 | 40.3 | 39.4 | | 35.5 | 32.7 | | 34.2 | 33.0 | 31.5 | 30.5 | 28.7 | 26.8 | 24.7 |
| 16000 | 33.9 | 34.4 | 35.6 | 35.8 | 36.2 | 35.0 | 34.0 | 33.1 | 32.2 | 28.5 | 24.5 | 25.2 | 26.6 | 25.3 | 24.1 | 22.8 | 21.6 | 18.3 | 14.9 |
| 20000 | 24.1 | 25.4 | 27.4 | | | 26.7 | 25.4 | | | 17.6 | 10.0 | | 46.6 | 14. 2 | 12.1 | • | 4.0 | 4 | ď |
| | | | | | | | | | | | | | >>> |) · | 4.01 | | 7 1 | • | • |

| TABLES | | 1TED 01 | FRALL | • | Int | - | | | | | | | | | |) IDENTI | | TONS | |
|---------------------------|--|----------------|--------------|------|---------------|----------------------------------|--------------------------------------|--------------|-------------|-----------|--------------------------------|-------|-----------------|---------|------|---------------|----------------------------------|------------|--------------|
| NOISE SOURCE, F-111A N | E SOURCE/SUBJECT: F-111A NOISE SUPPRESSOR AF32A-13 | / YOUNGITON OF | ZESSOR | E C | COPERAT MI | ERATIONI MILITARY SINGLE E | RATION: MILITARY POWER SINGLE ENGINE | 30080E | A T | ¥ | METEOROLOGY TEMP BAR PRE | OGY ! | = 59 = 29,92 | F F F F | | AIRCI OPER | /8- 03 24FT 17IO 17E | 888 | 779 80104 |
| ; ; ; ; ; | : | | | ~~ | 3 | ONNO R | ONUP (| (SUPPRESSED) | SSED) | ~ ~ | REL DELTA N | `₹! | 80 . | × | |) 26) PAG | 1 NOV 79 | | |
| DISTANCE (FEET) | | 70 | 20 | 86 | Ģ | 50 | 99 | 0.2 | ANGLE 80 | (DEGREES) | 100 100 | 110 | 120 | 130 | 140 | 156 | 160 | 170 | 100 |
| 200 | 93.1 | 93.9 | 94.9 | j | 94.5 | 93.5 | 95.6 | ~ | 90.7 | 89.6 | 88.9 | 87.9 | 4.29 | 6.9 | 86.7 | 87.1 | 67.9 | 84.8 | 81.9 |
| 250 | 94.9 | 91.7 | 95.6 | 92.5 | 92.4 | 91.4 | 90.4 | 89.5 | 98.6 | 87.4 | 96.6 | 95.7 | | 84.7 | 94.6 | 84.9 | 1.58 | 01.0 | 79.7 |
| 513 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 63.0 | * * | i a | 4 | 2.69 | 2.00 | m + | \$ 00° | 85.2 | 0 to 0 | 63.5 | B | 62.5 | 82.4 | 82.7 | 9 7 6 | 79.6 | 77.5 |
| 200 | 9 6 | 92.0 | 65.9 | ŝ | 65.6 | 84.6 | 83.7 | 4 40 | 81.8 | 88.5 | 79.6 | 78.8 | 78.5 | 78.B | 77.9 | 76.1 | 76.8 | 75.1 | 73.0 |
| 630 | 81.8 | 82.6 | 83.5 | m | 83.3 | 82.3 | 61.3 | 4 | 79.5 | 78.1 | 77.1 | 76.4 | 76.2 | 75.6 | 75.5 | 75.7 | 76.4 | 72.7 | 70.6 |
| 90 | 79.3 | 80.2 | 81.1 | ÷ | å | 79.9 | 78.9 | 9 | 77.1 | 75.6 | 74.5 | 73.9 | 73.7 | 73.2 | 73.0 | 73.2 | 73.8 | 78.2 | 68.2 |
| 1000 | 76.9 | 77.7 | 78.6 | é | 78.4 | 77.4 | 76.4 | 60 | و | 73.1 | 71.9 | 71.4 | 71.2 | 70.7 | 70.5 | 70.6 | 71.2 | 67.6 | 65.6 |
| 1250 | 74.3 | 75.1 | | ŝ | 75.8 | 74.8 | 73.8 | σ | _ | 70.4 | 69.1 | 68.7 | 68.6 | 68.1 | 67.8 | 67.0 | 68.4 | 6.49 | 63.0 |
| 1600 | 71.6 | 72.4 | 73,3 | | 73.2 | 72.2 | 71.2 | m | . | 67.6 | 66.2 | | 62.9 | 4.59 | 65.0 | 65.0 | 65.4 | 62.1 | 2.09 |
| 250 B | 6 6 6 6 6 8 6 | 69.7 | 70.6 | 70.5 | 70.4 | 69.4 | 68.4 66.4 | 67.5 | 66.6 | 94.9 | M | 63.0 | 63.2 | 62.5 | 62.1 | 62.0 | 2.29 | 59.1 | 57.3 |
| 3150 | 62,6 | 63.4 | 64.3 | : # | 64.3 | 63.2 | 62.2 | , m | o . | 58.3 | 56.6 | 56.5 | 56.95 | 56.2 | | 55.1 | 55.B | 52.6 | 20.6 |
| 4000 | 59.0 | 59.9 | 60.8 | å | | 59.7 | 58.7 | | | 54.7 | 52.8 | 52.8 | 53.2 | 52.4 | 51.0 | 51.2 | 50.9 | 46.5 | 46.8 |
| 2000 | 55.0 | 55.9 | 56. b | | 56. 8 | 55.7 | 54.7 | | ~ | 50.5 | 48.6 | | 49.1 | | 47.5 | 46.9 | 46.4 | 46.1 | 45.4 |
| 6300 | 20.1 | 51.6 | 52,5 | તં | | 51.4 | 50.4 | 4 | | 46.1 | 44.1 | 4.2 | 44.7 | | 43.0 | 42.3 | *1.6 | 39.6 | 37.9 |
| 9000 | 46.7 | 47.6 | 49.5 | ė | 4 0° | 47.4 | † 9 | r. | S. | 42.1 | 40.0 | | 40.9 | 40.0 | 39.2 | 36.3 | 37.6 | 35.7 | 34.0 |
| 10000 | 45.4 | 43.2 | 44.1 | ; | | 43.0 | 42.1 | N | 40.2 | 37.8 | 35.6 | 36.1 | 36.8 | 35.9 | 35.1 | 34.2 | 33.4 | 31.6 | 29.9 |
| 12500 | 37.6 | 38.4 | 39.2 | đ | | 30.5 | 37.3 | R | 35.6 | 33.1 | 30.9 | 31.5 | | 31.4 | 30.6 | 29.7 | 20.9 | 27.1 | 25.5 |
| 16000 | 32.3 | 33. | 33.6 | 33.6 | 33, 9 | 33.0 | 32.1 | 31.3 | 30.5 | 28.1 | 25.8 | 26.5 | 27.4 | 26.5 | 25.7 | 24.9 | 24.0 | 22.3 | 20.0 |
| 8000 | 26.5 | 27.2 | 27.9 | | | 27.2 | 26.4 | و | 54.9 | 22.5 | 20.4 | 21.1 | 21.9 | 21.1 | 20.3 | 19.5 | 19.7 | 17.1 | 15.6 |
| 200 | 20.5 | 20.9 | 21.6 | ä | | 21.0 | 20.5 | r. | 16.8 | 16.6 | 14.5 | 15.2 | | 15.2 | 14.5 | 13.7 | 12.9 | 11.5 | 19.1 |
| | | | | | | | | | | | | | | | | | | | |

| 779 80184 | 180 | 83.9) 81.7) 79.5) | 77.3) | 7.6 | 5.50 | 2.6 | 48.4 43.6 38.4 34.4 | 29.9) 25.5) 20.6) 15.6) |
|---|--------------------|---|---|--------------|--------------|--------------------|--|--|
| - 1 - 기 - 기 - 기 - 기 - 기 - 기 - 기 - 기 - 기 | • | 0 h U | . m or up - | d in | | 9 6 0 N | | 31.6 2 27.4 2 22.3 2 17.1 1 |
| CAT P 77 | 170 | 60 40 40 | 5 2 2 C | | 200 | 9 22 | M F F S | 4 31 9 27 9 11 1 17 |
| DEMTIFICA DOMEGA 6. TEST 78-7 RUM 03 ARCRAFT OPERATION PROFILE W | | 91. | 85. | 75. | 72. | 58. | # # # W | 23. |
| TEST ONEGOTO TEST TEST ONEGOTO DOPER | 150 | 90.1 87.9 85.7 | 83.4 81.1 78.7 | 73.6 | 70.8 68.0 | 61.7 58.1 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 34.2 29.7 24.9 19.5 |
| | 140 | 86.9 | 82.3 80.0 77.6 | 72.6 | 69.9 67.1 | 61.1 | 56.5 48.5 49.6 | 35.1 30.6 25.7 20.3 |
| E E E | | N 63 66 | | | • ~ 0 | | is en at M | 335.5 225.5 15.5 15.2 |
| 59 9.92 70 | 1 1 | 96.0 | *** | , t o | ~ ~ ~ | - r 10 | ~ + 0 0 | 9 M J M G |
| , , , , , , , , , , , , , , , , , , , | • i | 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 69. | 20.00 | 8 6 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 3 32. 5 27. 5 27. 1 21. |
| OLOGY: | 9 | 87. | 76. | 2 | 6.50 | 90.00 | 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 36. 31. 36. 32. 34. 35. 34. 35. 34. 35. 34. 35. 34. 35. 34. 35. 35. 35. 35. 35. 35. 35. 35. 35. 35 |
| METEOROLOGY TEMP BAR PRE REL HUM | . ! 22 - | 89.4 87.2 84.9 | 82.5 80.1 77.6 | 72.4 | 69.7 66.8 | 60.6 57.1 | 53.2 68.9 64.3 60.1 | 35.6 30.9 25.6 14.5 |
| i i i i | 0 | 89.6 87.4 85.2 | 8 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 73.1 | 9.29 | 58.3 | 56.7 46.5 42.1 | 37.8 33.1 28.1 15.5 |
| (08A) 5% RPH RESSED) | ANGLE 80 | 11.3 | 82.4 | 5.2 | 9000 | e: v v | 57.3 53.1 48.6 | 46 335 20 24 30 40 30 30 30 30 30 30 30 30 30 30 30 30 30 |
| | | N D T | | . -4 | w eo - | | ~~~ | 23.00 to 10. |
| LEVEL SOURCE SHER 96. | | N = # | N to to to | | | | | # M # # N |
| SOUND FROM FROM ENGIN | 99 | | 966 | | | | 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 33. |
| OVERALL SOUND LEI DISTANCE FROM SON ERATION: MILITARY POWER SINGLE ENGINE GROUND RUNUP (| 50 | 94.1 | 87.9 82.9 82.9 | 78.6 | 72.6 | 63.8 | 56.1 56.1 51.7 47.6 | 43.0 38.2 33.0 27.2 |
| 19 918 | 3 | 95.2 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | | 75.5 | 6 8 . 1 6 4 . 9 | 61.3 57.2 52.8 48.6 | 44.1 39.2 33.9 28.0 |
| 1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to | e e | 94.6 92.5 | 88.4 | 6.5 | | | 6 77 60 60 6 73 60 60 73 73 60 60 | 44.0 339.2 27.9 1.6 |
| ED, A-MEI N OF ANGL | 10 20 | | . U & IV ~ | م 4 | 76.0 7 | | | 23.5 23.5 27.9 21.6 |
| P | 10 | | 887°E & & & & & & & & & & & & & & & & & & & | | | 65.7 6.63.4 6 | | 43.6 33.6 33.6 23.6 20.0 20.0 20.0 20.0 20.0 20.0 20.0 |
| NE-CORRECT A FUNCTIO E/SUBJECT® NOISE SUPP | | ~ ~ ~ | | | -2 eo c | | 0 . N 4 | 4 0 M M N |
| TONE-CORREG AS A FUNCTI SOURCE/SUBJECT 111A NOISE SUPI 32A-13 | " | 90.00 | 8 5. | 78. | 75. | 67. | 0 W W W W W W W W W W W W W W W W W W W | 32. |
| TABLE: TO AS NOISE SOURC F-111A AF32A-1 | OISTANCE (FEET) | 200 250 315 | 10000 10000 17400 | 1000 | 1250 1600 | 25 00 31 50 | 45.00 53.00 63.00 63.00 63.00 63.00 | 10061 12500 16000 26000 25000 |
| TABL | | | | | | | | ##### |

| | OT STANCE | | 200 | - | | | | | | | | | | | | | | OMEGA | OMEGA 8.2 | 9.5 | |
|---|------------------------|--------------------|----------------------|------|---|--------|--|----------------|----------|-----------------------------|------|--|--|--------------|-------------------------------|----------|----|---------------------------|-----------|--------------------------------|--------------------------|
| • | | DISTANCE - CSU FEE | | | | | 1 | | į | | | | | | | į | | P TEXT | | | 5 |
| NOISE SOURCE/SUBJECT F-111A NOISE SUPI AF32A-13 | JRCE/ 14 NO 1-13 | SUBJE ISE S | Ject i Suppressor | SSOR | | | RATION: MILITARY POWER 9 SINGLE ENGINE GROUND RUNUP (SU | Y PON ENGIN | ER 96.! | R 96.5% RPM (SUPPRESSED) | | METEOROL TEME BAR BAR REL DELTA N | METEOROLOGY: TEMP BAR PRESS REL HUNID DELTA N = 0. | v a e | = 59 F =29.92 IN = 70 % | 9 | | AIRCE OPER() PROFII | R K HO | CODE N CODE Version 9 | E 779 E 80104 ON A |
| | | | | | | PEPNLT | | | | | A=AL | | | | | T=ALT | | | | | |
| | ٠. ا | | | | | | • | | ٠ | | | | | | | ٠ | | • | | • | 7 |
| | ن ب • | • | • | • | • | • | • | • | • | • | • | • | : | • | • | • | - | • | • | • | • |
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| ~ | 20 20 | | | | | | • • | | • • | | • • | | | • • | | • • | × | • • | _ | •• | |
| ~ | ر ع | • | | • | | | • | | • | | • | | | • | | • | , | • | | • | ^ ' |
| 7 | ; : | • | • | • | • | • | • • | • | • • • | • | • | • | • | • • | • | •• | • | •• | • | •• | • |
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| | . 28 | | | • • | | | • • | | • • | | • • | | | • • | | • • | = | • • | | •• | ^ |
| | <u> </u> | • | | • | · | | • | | • | | • | | • | • | | • | | • | (| • | |
| ه د و | : _ } | • | • | • | • | • | : | • | • | • | • | • | • | • | • | ₹ • | • | • | • | • | • |
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| | 9 | | | | | | • • | | • • | | • • | | | • • | | ٠, | | • | ۰ | • | ^ ~ |
| z | <u>.</u> و | • | | | | | • | | • | | • | | • | • | | • | | • | | • | |
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| E 100 | | • | | • | | | • | | • | | • | | • | • | | · · | | • | ۵ | • | |
| R 110 | ں ۔ ج | | | | | | • • | | • • | | . • | | | • • | | • • | | • • | | • • | |
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| E 120 | ن . ء | • | • | • | • | • | • | • | • | • | • | • | • | • | AT | • | • | • | • | • | • |
| 130 | = | | | | | | • • | | • • | | • • | | | • • | AT | •• | | • • | • | • • | • • |
| 140 | ۔ و | | | | | | • (| | • • | | • • | | • | • | • | • | | • | • | • | |
| i : | _ | • | | • | - | | • | | • • | | • • | | • • | • • | • | • • • | | • • | L | • • | ` ~ |
| 150 | ے ۔ چ | • | • | • | • | • | • | • | • | • | • | • | • | • | 4 | - | • | • | • | • | • |
| 160 | | | | | | | • • | | • • | | | | | • • | | -• | | • • | • | • • | ` ^ |
| 176 | e | | | | • | | • • | | • • | | • • | | | • • | - | • • | | • | | • • | |
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| 18 | ے۔ = | : | • | • | • | • | • | | • | • | • | • | • | • | <u>.</u> | • | • | • | • | • | • |
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| ! !! _ ~ . | AIRCRAFT CODE 779 OPERATION CODE 86182 PROFILE VERSION A 28 NOW 79 PAGE C4 | 160 170 180 | 81 82 | 81 80 | 84 81 | 85 82 | 63 77 | 63 77 | 2 8 | 76 74 | 76 75 | 77 75 | 77 74 | 74 72 | 71 70 | 72 71 | 72 72 | 73 78 | 72 72 | 68 68 | 70 70 | 64 62 | 69 23 | 55 54 | 64 64 | 93 90 95 |
|--|--|------------------------------|-------|-------|----------|----------|------------|----------|----------------------|-------|----------|----------|----------|-------|------------|----------|-------|-------------|-----------|------------|----------|--------------|-------|-------|----------|----------|
| DENT DOMEG | AIRCRAF OPERATI PROFILE 26 NOV | 156 | 9 | | - | _ | ~ | . | 80 | • | <u></u> | σ. | ~ | | | | | | | 6 | _ | و | • | σ | m | 91 |
| | 9 I | 130 140 | 7 87 | ~ | • | • | ~ 1 | ~ 1 | | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | 9 | ~ | 9 | 9 | w | w | 06 06 |
| | 80 90 713 813 | 23 | | | | | | | 96 | | | | | | | | | | | | | | _ | | | 91 9 |
| | 648 SS = 29 ID = 0.0 | 110 1 | 7.8 | 28 | 80 | 82 | 62 | 9 9 | 2 2 | 11 | 79 | 92 | 78 | 77 | 92 | 75 | 7. | 1 | 22 | 72 | * | 72 | 7 | 69 | • | 91 |
| | ETEOROLOGYS TENP BAR PRESS REL HUMID | 100 100 | 7.8 | 2. | 80 | 83 | 0 (0 (| £ 6 | 9 C | 11 | 62 | 7.8 | 78 | 8 | 11 | 92 | 75 | 7.4 | 75 | 73 | 7 | 4 | 7.4 | 72 | 99 | 91 |
| | | CDEGRE 90 | 77 | 7.8 | 9 | 8 | 62 | 9 8 | 2 6 | 62 | 81 | 90 | 79 | 4 | 23 | 78 | 11 | 92 | 77 | 73 | 9 | 7. | 75 | 72 | 69 | 35 |
| | POWER LESSED) | ANGLE | 77 | | | | | | ∋ M 0 €0 | | | | | | | | | | | | | | | | | 93 |
| | | 92 | | | | | | | 1 40 | | | | | | | | | | | | | | | | | 95 |
| (80) | AFTERBURNER Engine Runup (Suppr | 9 | m | σ | | . |) خ | N 11 | 0 0 0 0 | | | _ | . | r. | rv. | . | m | m | ~ | - | | _ | ~ | م | . | 16 1 |
| VEL VEL | Znuc | | 83 8 | 2 | • | • | • | • | 87 8 | 90 | • | • | • | • | • | • | 20 | • | 80 | ∞ • | • | ~ | ~ | ~ | ~ | 76 86 |
| . | OPERATIC ZONE S SINGLE GROUNG | 30 4 | 78 | | | | | | 0 00 0 00 0 00 | | | | | | | | | | | | | | | | | 6 86 |
| P.E.E. | | 3£ | | m | ∞ | _ | . | v - | † 65 0 40 | 9 | 9 | S | ۰ | • | ~ | rv i | m | . | | ~ 1 | - | σ, | ~ | ~ | و | 66 |
| SOUND BAND 250 | BJECT: Suppressor | 10 | 48 | 83 | 90 | 82 | ₩. | ŧ. | # 9 | 90 | 82 | 4 | 9 | 87 | 9 2 | \$ | 82 | # (60 (| 10 | 9 | 9 | 23 | 92 | 9 | 92 | 86 |
| NORMALIZED 1/3 OCTAVE DISTANCE = | | • | 83 | 83 | † | 8 | 85 | 2 6 | ? 4 0 60 | 98 | † | 83 | 9 | 87 | 4 | 6 | 81 | 8 9 | 28 | 62 | | 9 / | 92 | 92 | 92 | 16 |
| TABLE: NORM | NO IS F | (BAND CENTER (FREQ (HZ) | 20 | 63 | 9 | 100 | 125 | not 1 | 182 182 | 315 | 204 | 200 | 630 | 900 | 1000 | 1256 | 1600 | 2002 | 2220 | 3150 | | 2000 | 9200 | 3030 | 00001 | OVERALL |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| TABLES | PER | CEIVED NOIS A FUNCTION | ISE L N OF | ۳ س | (PNDB) AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | | OMEGA OMEGA TEST | DENTIFICATION OHEGA 8.2 | 10Ns | |
|--|--------------|---------------------------|---------------|------------------------|---|---------------------------------------|----------------------------------|--------------|---|----------------------|--|----------------|------------------------|---------------------------------------|--------------|------------------------|---|------------------|-------------------|
| | 12 KG | E/SUBJECT: NOISE SUPP | SUPPRESSOR | α | 0 PERA 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | RATIONS ZONE 3 SINGLE GROUND | AFTERBURN ENGINE RUNUP (SU | URNER (SUPPR | NER POWER Uppressed) | 1 0 | HETEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | = 59 =29.92 = 70 | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | PROFES | RUN 04 AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE 04 | CODE 7 CODE 0 | 779 00102 A |
| (DISTANCE ((FEET) | | 10 | 50 | g R | 3 | 50 | 99 | 2 | ANGLE BC | E (DEGREES 90 180 | 4EES) 18t | 116 | 120 | 130 | 140 | 150 | 160 | 178 | 180 |
| 500 500 500 500 500 500 500 500 500 500 | 109.5 | | 111.2 | 110.7 | 110.3 | 109.7 | | 105.3 | 90 10 | | 6 N | 102.9 1 | 99.7 | 101.1 1 | | 180.5 1 | 98.6 | 101.1 | 99.7 |
| 315 | 185. B | | 106.7 | 106 103 | 105.8 103.4 | | - | م د | N G | - N | 99.3 | 98°2 | 97.4 | 96.6 | 95.9 | 96.1 93.7 | 96.3 | 96.7 | 95.4 |
| 2000 | 100.1 | 161.0 | 101. | 101 | 101.0 | | | 98.2 | | 95.2 | 94.2 | 93,3 | 92.5 | 91.8 | 91.0 | 91.3 | 91.7 | 91.9 | 90.0 |
| 000 | 9.46 | | 96 | 9 | 95.7 | | ۰. | 9 00 | | 9 99 | 66.7 | 87.8 | 87.2 | 86.5 | 92.9 | 96.8 | 86.3 | 96.9 | 85.7 |
| 1000 | 91.9 | | | rå e | 92.0 | 92.1 | 91.9 | 3.06 | 88.2 | 86.9 | 85.8 | 85.0 | 84.3 | 63.6 | 82.9 | 83.2 | 63.5 | 8.48 | 82.6 |
| 1600 | 92.6 | | 87. | ۇ د | 8 9 | 85.8 | 85.7 | 63.6 | 81.9 | 90°° | 79.2 | 78.5 | 77.9 | 77.3 | 76.9 | 77.0 | 77.3 | 77.9 | 75.5 |
| 2500 | 82.1 76.3 | 83.0 79.2 | | 4 00 % 00 % 00 % | 83°0 79°5 | 82.7 79.0 | 82.4 78.7 | 80°5 76°6 | 78.7 | 77.0 | 75.5 | 75.0 71.2 | 74.5 | 7:2 | 73.7 | 73.6 | 76.07 | 76.6 | 72.6 |
| 3150 | 74.5 | | 76. | \$ - | 75.7 | 75.0 | 74.7 | 72.5 | 78.7 | 69.0 | 67.3 | 67.0 | 66.6 | 66.2 | 65.9 | 65.9 | 66.1 | 66.2 | 64.0 |
| 2000 | 65.6 | | 67. | 1 | 6 9 9 | 65.6 | 8 | 63.2 | 61.2 | 200 | 57.8 | 57.2 | 56.9 | 9.99 | 56.3 | 56.1 | 2.95 | 55.0 | 52.9 |
| 9000 | 56.6 | | | 3 % | 57.5 | 56.3 | 56.0 | 53.6 53.6 | 55.5 51.5 | 40.4 | 52°5 | 51.0 46.8 | 51.5 46.6 | 51.0 46.2 | 50°7 | 45.7 | 50.0 45.9 | 4 7 . e | 45.5 |
| 10000 | 50.8 | | 55 | 8 | તં. | 51.4 | 51.1 | 6.84 | 46.7 | 4.00 | + | 4106 | 41.1 | 6.04 | 40.7 | 40.2 | F 0 9 | 37.5 | 37.1 |
| 16,000 | 37.7 | 38.6 | å ö | 4 6 4 6 7 6 | 4 00 00 00 00 00 00 00 00 00 00 00 00 00 | 46.1 39.7 | 39.1 | 36.9 | 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . | 38.3 | 35.7 28.5 | 35° 5 28° 3 | 35.6 | 34.7 | 34.6 27.6 | 34.3 | 33.9 27.2 | 22.5 | 31.8 |
| 20000 | 30.0 | | | å | m, | 32.6 | 32.0 | 29.3 | 26.5 | 22.6 | | 16.3 | 18.5 | 10.4 | 10.5 | 17.4 | 16.4 | 10.0 | 10.9 |
| 00062) | 1 % | | 21: | Š | ร | 52.8 | 25.2 | 18.5 | * * * | | • | ۳ ق | . | 2*6 | * | * | 9. | | |
| | | | | | | 100000 | | | | | | | | | | | | | |

| (TABLE: | TONE- | TONE-CORRECTED, PERCE | EO, PE | _ | VED NOISE | E LEVEL | L (PNOB | 6 | | | | | | | |) TOEN | DENTIFICATION: | TIONS | |
|--------------------|---|-----------------------|-----------------|--------------|-----------------|---------------------------------------|--------------------------------------|----------------|--------------|--------------|---|----------------|------------------------|--------------|-----------------------|--------|--|-----------------------|-------------------|
| | ¥S. | A FUNCTION | P | | AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | |) TEST | T 78-7 | 78-779-001 | |
| NOISE SO F-11 | URCE/S 18 NOI 8-13 | SUBJECTS | RESSO | | OPERA S | RATIONS ZONE 3 SINGLE GROUND | AFTERBURNER ENGINE RUNUP (SUPP | ! <u>~</u> ~ ! | POWER ESSED! | 20000 | METEOROLOGY TEMP BAR PRE REL HUM | PRESS HUMID | = 59 =29,92 = 70 | 9 F N H G | ور . | 2 | AIRCRAFT OPERATION PROFILE VE PAGE E4 | CODE CODE RSION | 779 00102 A |
| (DISTANCE (FEET) | • | 10 20 | 50 | 8 | 3 | 50 | 60 | 78 | ANGLE 80 | 96 | GREES) 140 | 110 | 120 | 130 | 140 | 156 | 160 | 170 | 180 |
| 200 | 109.5 | 110.4 | 111.9 | 110. | n - | 109.7 | | IO M | | ~ 4 | 10.0 | 102.9 | 101.9 | _ 0 | ٠. | | - 0 | 103.3 | 99.7 |
| 312 | 105.0 | 105.9 | 107.3 | 106. | | 105.1 | | | | न् | 4 60 1 | 98.2 | 97.4 | 96.6 | 40 | 97.1 | 97.7 | 8 9 6 | 95.4 |
| | 102.6 | 103.5 | 102.5 | 163 | # a | 102.6 | | ٥ م | | ٠ م | m n. | 95.8 | 95.6 | 94.2 | | 94.6 | 95.4 | 96.5 | 93.2 |
| 636 | 97.5 | 98.4 | 99.9 | 98.8 96.1 | 98.4 | 97.7 | 98.2 95.5 | 95.6 92.9 | 93.8 91.1 | 92.6 89.8 | 92.0 | 90.7 | 89.9 87.2 | 89.2 | 88.5 | 89.8 | 900.4 | 91.6 | 86.5 |
| 10.00 | 910.9 | | 46 | | 92.8 | 92.1 | 42.7 | 40.0 | 6.8.2 | 86.9 | 86,3 | 65.0 | 86.3 | 83.6 | 82.9 | | 86.8 | 86.2 | 82.6 |
| 1250 | 88.8 | | | 6 | 89.7 | 89.1 | 89.6 | 86.9 | 85.1 | 83.8 | 83.1 | 81.9 | 81.2 | 80.5 | 79.9 | | 81.0 | 83.2 | 79.2 |
| 1808 (2818 | 85.6 82.1 | 86.5 | | 86°9 | 86° 84° 8 | 85.8 | 86.4 83.1 | 83.6 80.5 | 81.9 78.7 | 77.0 | 79.7 | 78.5 | 7.50 | 77.3 | 7 6. 9 73.7 | 78.1 | 78.6 | 80.0 76.6 | 72.6 |
| 2150 | 78.3 | | | 79. | 79.5 | 79.0 | 79.4 | 76.6 72.5 | 74.6 | 73.1 | 72.1 | 71.2 | 70.8 | 70.4 | 70.1 | | 71.6 | 72.7 | 66.6 |
| 1000 | 70.3 | | | Z | 71.5 | 70.5 | 70.9 | 69.0 | 66.1 | 64.3 | 63.1 | 62.3 | | 61.5 | 61.3 | | 62.4 | 63.8 | 50.6 |
| 5000 5300 | 65.6 | | 67.7 | 67. | 66.9 | 65.6 | 65.9 | 63.2 58.0 | 61.2 55.9 | 59.3 | 58.1 | 57.2 | 56.9 | 56.6 | 56.3 | 56.8 | 57.0 | 57.1 | 52.9 |
| 9809 | 56.0 | 56 | 58. | 57. | 57.5 | 56.3 | 56.1 | 53.6 | 51.5 | 4.64 | 47.3 | 40. | 9.94 | 46.2 | 45.9 | | 66. 1 | 43.5 | 42.5 |
| 10000 | 50.0 | | | 52. | ર | 51.4 | 51.1 | 46.9 | 46.7 | 44.3 | 41.8 | 47.4 | 41.1 | 40. 9 | 40.7 | 40.2 | £0.3 | 37.5 | 37.1 |
| 15990 | 37.7 | | 0 4 0 5 M | 4 k | 46.7 | 46.1 | 45.00 0.00 | 4 % B | 40.8 | 30.4 | 35.7 | 35.5 | 35.8 | 34.7 | 34.6 | 34.3 | 33.9 | 29.9 | 31.0 |
| 50000 | 36.0 | 31.2 | | 32. | 30,00 | 32.6 | 32.0 | 29.3 | 26.5 | 22.8 | 18.2 | 10.3 | 18.5 | 18.4 | 18.5 | 17.4 | 16.4 | 10.0 | 10.9 |
| (25000 | 19.0 | | | 22 | 'n | 22.8 | 22.2 | 18.5 | 14.5 | 8.8 | 9.0 | 8.3 | 9.1 | 9•2 | 9.4 | 7.4 | 9.6 | | |
| (| 101100000000000000000000000000000000000 | | | | | | *** | | | | | | | • | | | | | |

| (TABLE: A-WEIGHTED OVERALL S | A- ME 1G | A-WEIGHTED OVERALL | VERALL | SOUND | LEVEL | (DBA) | | | | | | | | | |) IDENTIF | DENTIFICATION | TONS | |
|---|--|--------------------|------------|------------|----------------------------------|----------------------------------|--------------------------------------|---|-----------------------------|-------|---|----------------|--------------------------------|-------|---------------|---|---------------|---------------------------|------------------|
| | AS A F | FUNCTION | IN OF ANGL | 141 | AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | | TEST | 9 3 | 100-6 | |
| NOISE SO | 1 2 2 2 | JB JECT 1 | RESSOR | 1 | OPERA Z S G | TION: ONE 3 INGLE ROUND | AFTERBURNER Engine Runup (Süpp | URNER (SUPPR | JRNER POWER (SUPPRESSED) | 2000 | METEOROLOGY TEMP BAR PRE: REL HUM DELTA N = | PRESS HUMID | = 59 =29.92 = 70 0 08 | F X X | | AIRCRAF OPERATION PROFILE PROFILE 28 NOV | _ H O | C0 DE C0 DE RS I ON | 779) 00102) |
| (DISTANCE (FEET) | 9 | 10 | 20 | 30 | 3 | 50 | 0.9 | 7.0 | ANGLE 80 | . – 5 | DEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 96.0 | 96.9 | 97.8 | 97.5 | 97.3 | 96.5 | 96.4 | 94.3 | 92.4 | 90.9 | 89.5 | 88.6 | 87.9 | 87.2 | 86.6 | 86.5 | 86.7 | 86.3 | 84.8 |
| 315 | 91.7 | | 93, | | 'n | 92.2 | 92.1 | | 88.0 | 86.5 | | | 83.5 | 82.9 | 82.3 | | 82.5 | 82.9 | 83.7 > |
| 004 | 89.4 | | 91. | | ÷ | 69.6 | 6.0 | | 85.8 | 84.2 | | | 81.3 | 84.7 | 80.2 | 80.1 | 90.4 | 79.8 | 78.6) |
| | 64.8 | 86.1 | | | 60 60 60 60 60 60 60 60 | 85.4 | 87.6 | 8 5° 50 | 83.5 | 62.0 | 80.5 | 79.7 | 79.1 | 78.5 | 77.9 | 77.9 | 76.1 | 77.5 | 76.4 > |
| 9000 | 82.5 | 83.4 | | | | 83.0 | 83.0 | 80.9 | 78.9 | 77.2 | | | 7 % . 4 | 73.8 | 73.3 | 73.3 | 73.4 | 72.8 | 71.6 |
| . 6561 | 9 0 | 0.04 | A 1 . A | 8 | 4 | 3,08 | 40.6 | 78.5 | 76. 4 | 74.7 | 7.2.4 | 72.5 | 0.17 | 7 7 7 | 7. | 0 | 74.0 | 7.07 | 69.4 |
| 1250 | 77.5 | 78.4 | 79.3 | 7.9 | 7 9. 0 | 78.1 | 78.1 | | 73.9 | 72.2 | 70.51 | 69.6 | 69.4 | 699 | 68.4 | 66.3 | 69.4 | 67.6 | 66.4 |
| 1600 | 7 4. 8 | 75.7 | 76.6 | 76. | 76.4 | 75.5 | 75.5 | 73.3 | | 69.5 | 67.8 | 67.3 | 2.99 | 66.3 | 62.9 | | 65.7 | 6.49 | 63.5) |
| 2000 | 72.1 | 73.0 | 73.9 | ۲. در د | 73.7 | 72.8 | 72.7 | | | 66.8 | | 64.5 | 64. | 63.6 | 63.2 | | 65.9 | 62.0 | 68.5 |
| 3150 | 1 • 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 66.8 | 67.7 | 67. | 67.7 | 66.0 | 66.0 | 0 4 . 4 9 | 62,0 | 60.5 | 56.6 | 58.2 | 57.7 | 57.3 | 2 6. 9 | 54° 5 | 54.0 56.4 | 50.00 50.00 | 53.3) |
| 0004 | 62.5 | 63,3 | | \$ | 64.2 | 65.9 | 65.9 | 50.7 | | 56.9 | 55.5 | 54.6 | 54.1 | 53.6 | 53.5 | 52.9 | 52.6 | 51.5 | 49.2 |
| 2000 | 58.5 | 59.4 | | 9 | 60.2 | 58.9 | 56.6 | 56.7 | | 52.8 | 51.1 | 20.6 | 20.0 | 40.5 | 49.0 | 48.7 | 48.5 | 2.24 | 44.8 |
| 9000 | 50.1 | 51.0 | 51.9 | 51.9 | 50° | 50.5 | 50. 50. 50. | 56.5 48.2 | 70°4 | t t t | 45.8 | 40° 7 | 49.0 41.7 | 45.1 | | 40.5 | | 38.4 | 36.8 |
| - | ! | • | • | | 1 | | | 1 | | | | | | | | ! | | | • |
| | 4.0° | 60.5 | 7° c | • | , | 400 | 9 | 63.6 | | 40.1 | 36.4 | 37.9 | 37.5 | 37.0 | 36.7 | 36.3 | 36.1 | 34.0 | 33.0 |
| # P P P P P P P P P P P P P P P P P P P | 46.0 | 26.0 | 17. | , | 44,0 | 77. | 7 1 2 | 4 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 2 2 2 2 | 200 | 0 0 | | 20.00 | 20.70 | 24.0 | 24.4 | 36.0 | 24.7 | 25.0 |
| 20000 | 29.5 | 30.2 | 31.6 | 31.2 | 31.4 | 3000 | 30.3 | 28.3 | 26.4 | 24.6 | 22.8 | 22.6 | 22.4 | 22.2 | 22.0 | 21.8 | 21.8 | 19.3 | 20.7) |
| (25000 | 23.0 | 23.8 | 24.6 | 2. | 25.0 | 24.3 | 24.1 | 22.2 | | 18.5 | | | 16.5 | 16.3 | 16.2 | 16.2 | 16.5 | 13.7 | 16.4) |
| _ | | | | | | | | | | | | | | | | | | | ^ |

| F-111A NOISE SUPRESSOR CARLE FAIRE NOISE FIETP | TABLE: | TONE-C | TONE-CORRECTED, A-WEIGHTED AS A FUNCTION OF ANGLE AND | ED, A-I N OF A | -WEIGHT | | ALL | SOUND LI | LEVEL CI | (08A) | | | | | | | D TOENT | | 10N6 | |
|--|-----------|----------------------------|--|-------------------|---------------------------------------|------|--|---------------------------|----------|-----------------|------|-------|----------------|------|------|------|----------------|------------------------------------|------------------|-------------------------|
| 4.0 28 30 40 50 60 70 40 90 10 12 12 13 14 15 14 15 15 16 16 90 40 90 10 | NOISE SOU | URCE/SU 1A NOIS A-13 | BJECT 8 | RESSOR | | i ez | ! | AFTERB ENGINE RUNUP | | POWER ESSED) | Ŧ ō | 1 2 | PRESS HURID | =29. | FHX | | AIRC PROFES | SAFT RATION TLE VE 104 79 | CODE 1 CODE 1 | 779 88182 h M A) |
| 96.8 96.9 98.4 97.5 97.3 96.5 97.1 94.3 92.4 98.9 90.0 88.6 87.9 87.2 86.6 87.6 86.8 88.8 83.8 94.1 93.2 95.1 94.3 94.2 88.7 86.5 85.7 85.8 87.8 83.8 83.8 83.8 83.8 83.8 83.8 83 | DISTANCE | | = | 58 | R | 3 | 99 | 99 | 2 | ANGLE | 0. | REES) | 118 | 120 | 130 | 1 | 22 | 161 | 2 | = |
| 91.7 92.5 94.1 93.2 93.0 92.2 92.8 90.0 86.9 86.5 85.6 84.3 83.5 82.9 82.9 82.3 83.4 83.8 83.8 83.8 83.8 83.8 83.8 83 | 220 | 96.0 | 96.9 | 98.4 | | 2.0 | 96.5 | 97.1 | 94.3 | 92.4 | 98.9 | 90.0 | 86.6 56.5 | 85.7 | 87.2 | 90.0 | 87.6 | 86.1 | 86.9 | 84.8 |
| 87.2 88.1 89.6 88.7 86.5 87.7 88.4 85.5 83.5 82.6 77.6 79.1 79.1 76.7 76.7 77.9 79.8 79.8 79.8 89.8 89.7 86.4 86.2 85.4 86.1 83.2 81.2 77.2 76.1 77.4 76.7 76.2 77.7 77.8 77.8 77.8 77.8 77.8 77.8 77 | 312 | 91.7 | 92.5 | 94.1 | 93.2 | m e | 92.2 | 92.8 | 90.0 | 88.0 | 86.5 | 85.6 | 86.3 | 63.5 | 82.9 | 82.3 | 94.4 | | 64.2 | 7.6.6 |
| 88.0 80.4 80.4 80.4 80.4 80.4 80.1 80.4 70.9 77.2 76.1 76.4 70.4 70.4 70.7 70.7 70.4 70.4 70.4 70 | 90 | 87.2 | 88 | 9.69 | 88.7 | å, | 87.7 | 88.4 | 52.0 | 8 8 9 | 82.0 | | 26. | 13.1 | 76.5 | 77.9 | 10.5 | 29.5 | 7.62 | 76.4 |
| 88.0 80.9 82.6 81.6 81.5 80.6 81.3 78.5 75.4 74.7 73.6 72.5 71.9 71.4 71.0 71.0 71.0 71.0 71.0 77.5 78.4 79.9 79.1 79.0 78.1 78.8 75.9 73.9 72.2 71.0 69.9 69.4 68.9 68.4 69.4 69.9 77.0 77.2 76.5 76.5 76.2 73.3 71.3 69.5 60.3 67.3 67.3 66.7 66.3 65.9 68.4 67.0 67.1 72.1 72.1 72.1 72.1 72.1 72.2 76.2 73.3 71.5 69.6 66.3 67.3 67.3 66.7 66.3 65.9 68.4 67.0 67.1 72.1 72.1 73.0 72.2 72.1 73.0 72.2 72.1 73.0 73.7 72.0 73.5 70.6 68.6 65.6 65.6 61.5 61.5 64.0 63.2 64.0 65.0 65.0 65.3 65.2 64.0 65.0 65.0 65.0 65.3 64.7 64.2 64.2 67.6 65.6 65.6 65.6 61.5 61.5 61.0 60.2 61.3 65.0 65.3 64.7 64.2 64.2 62.9 63.5 60.7 56.5 56.5 54.6 54.0 54.0 63.2 64.0 63.2 64.2 62.9 63.5 60.2 63.5 60.2 63.5 63.2 64.0 63.3 64.7 64.2 64.2 62.9 63.5 60.7 56.5 56.6 54.6 54.0 54.0 69.2 63.5 60.2 63.5 60.7 54.5 54.5 54.0 54.0 69.3 69.0 69.3 69.0 69.2 63.5 60.7 54.5 54.5 54.6 54.1 53.6 53.2 53.7 53.2 53.7 53.2 54.2 55.1 56.2 55.0 54.0 54.0 69.3 56.7 56.0 56.0 56.0 56.0 56.0 56.0 56.0 56.0 | 000 | 62.5 | 03.4 | 0 | * * * * * * * * * * * * * * * * * * * | åmå | 63.8 | 63.7 | 88.9 | 76.9 | 77.2 | 76.1 | | | | 73.3 | *** | 24.8 | 5:5 | 77.0 |
| 74.6 75.7 77.2 76.5 76.4 75.5 76.2 73.3 71.3 69.5 66.3 67.3 66.7 66.3 65.9 66.8 67.5 67.1 77.2 76.5 76.4 75.5 76.2 73.3 71.3 69.5 66.3 67.3 67.3 66.7 66.3 65.9 66.8 67.2 72.1 73.0 77.2 76.5 73.6 77.5 77.5 77.5 77.5 77.5 77.5 77.5 77 | 1000 | 80.0 | 60.9 | 82.4 | | 81.5 | 88.6 | 81.3 | 78.5 | 76.4 | 74.7 | 73.6 | 72.5 | | 71.4 | 71.0 | 0.4 | 72.3 | 72.4 | 69.1 |
| 69.1 74.6 71.5 70.6 70.8 69.8 70.5 67.6 65.6 63.8 62.6 61.5 61.0 60.6 60.2 61.0 61.0 60.0 60.3 67.7 67.2 64.4 62.3 60.5 59.3 50.2 57.7 57.3 56.9 57.7 57.8 65.9 65.7 57.8 65.9 65.0 65.0 65.0 60.3 67.7 67.2 64.4 62.3 60.5 56.9 57.7 57.3 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.8 56.9 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 56.9 57.7 57.8 57.8 56.9 57.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 | 1630 | 74.8 | 75.7 | 77.2 | | 76.4 | 75.5 | 76.2 | 73.3 | 71.3 | 6.00 | 66.3 | 67.3 | 66.7 | 66.3 | 65.9 | • | 67.0 64.2 | 67.8 | 63.5 |
| 62.5 63.3 64.7 64.2 64.2 62.9 63.5 60.7 58.6 56.9 55.6 54.6 54.1 53.6 53.2 53.7 53.5 58.5 58.5 58.5 58.6 58.6 54.1 53.6 53.2 53.7 53.7 53.8 58.2 58.7 59.8 58.2 58.4 58.5 58.6 58.6 58.6 58.6 58.8 49.8 49.3 49.3 58.2 58.2 58.2 58.2 58.2 58.2 58.2 58.2 | 2596 | 69.4 | 74.0 | 71.5 | | 78.8 | 69.8 | 70.5 | 67.6 | 65.6 | 53.8 | 59.3 | 54.5 | | | 56.9 | 0 | 61.1 | 61.0 | 57.1 |
| 54.2 55.1 56.2 56.8 56.8 54.5 54.8 52.3 50.2 46.5 47.8 46.2 45.6 45.1 44.6 44.7 48.5 58.1 51.0 52.8 51.9 50.2 54.8 52.3 50.2 46.5 47.8 46.2 45.6 45.7 41.2 41.2 41.6 41.7 41.2 51.9 50.5 50.5 46.1 44.4 42.9 42.2 41.7 41.2 41.2 41.8 48.8 41.6 42.9 42.2 41.7 41.2 37.8 36.3 36.4 41.2 37.1 35.3 33.6 33.2 32.9 37.5 37.8 36.3 38.9 38.9 38.6 33.2 32.9 37.5 37.8 37.8 37.8 37.8 37.8 37.8 37.8 37.8 | 900 | 62.5 | 63.3 | 64.7 | | | 62.9 | 63.5 | 60.7 | 58.6 | 56.9 | 55.6 | 9.0 | 54.1 | 93.6 | 53.2 | . ~ * | 53.7 | 53.2 | 49.2 |
| 45.7 46.5 47.3 47.4 47.5 46.1 46.8 43.9 41.6 41.1 38.4 37.9 37.5 37.8 36.7 36.3 36. 45.7 46.5 47.3 47.4 47.5 46.1 46.8 43.9 41.6 41.1 35.3 33.6 33.2 32.9 32.5 32.3 33.9 31. 56.8 41.6 42.4 42.5 42.6 41.3 36.1 37.1 35.3 33.6 33.2 28.4 28.1 27.9 27.6 27.4 28.5 27.4 26.3 28.6 21.8 21.2 27.4 28.5 20.2 28.6 22.6 22.6 22.6 22.6 22.6 22.6 22 | 60.00 | 54.2 | 55.1 | 26.2 | | | 50 50 50 50 50 50 50 | 54.0 | 52.3 | 50.2 | 46.5 | 67.0 | 66.2 | 45.6 | 65.1 | 9 6 |) ~ ^ | | 4 6 | 40.3 |
| 23.0 23.0 24.0 24.0 42.0 42.1 42.2 39.1 71.1 58.1 30.4 57.2 32.9 32.3 31.9 31.9 31.9 31.9 31.9 31.9 31.9 31 | | 7 | 4 | 7.2.4 | | | 4 | | | , | | | | - | | 7 7 | | | | |
| 35.4 36.2 37.8 37.1 37.3 36.1 36.9 34.0 32.8 38.2 28.4 28.1 27.9 27.6 27.4 27.1 26. 29.5 30.2 31.8 31.2 31.4 38.4 38.3 28.3 26.4 24.6 22.8 22.6 22.4 22.2 22.8 21.8 21. 23.8 23.8 24.6 24.7 25.8 24.3 24.1 22.2 28.4 18.5 16.8 16.6 16.5 16.3 16.2 16.2 16. | 12500 | 9 | 41.6 | 45.4 | 42.5 | 42.6 | 41.3 | 41.2 | 39.1 | 37.1 | 35.3 | 33.6 | 33.2 | 32.9 | 32.5 | 32.3 | 31.9 | 31.7 | 29.5 | 29.1 |
| 23.0 23.6 24.6 24.7 25.8 24.3 24.1 22.2 20.4 18.5 16.8 16.6 16.5 16.3 16.2 16.2 16. | 2000 | 35.4 | 36.2 | 37.8 | 37.1 | 37.3 | 36.1 | 30.0 | 34.0 | 32.0 | 30.2 | | 28.1 | 27.9 | 27.6 | | 27.1 21.8 | 26.9 | 24.6 | 25.0 |
| | 25000 | 23.0 | 23.6 | 24.6 | 24.7 | 25.0 | 24.3 | 24.1 | 22.2 | 20.4 | 18.5 | | 16.6 | 16.5 | 16.3 | | 16.2 | 16.5 | 13.7 | 16.4 |

| 1 AGL E • | |)) | בר א <u>ב</u> ר | | | | 7 | ANGLE ANGUND SOUNCE | 30.50 | | | | | | | | | | OMEGA 8.2 | 200 | | . , |
|--------------------------|-------------------------|----------|--|--------|-------|--|------------|----------------------------|---|-------|----------------------------------|-------|----------------|-------------|-----|--------|-------|------------|--|------------------------------|----------------------|---------------------|
| • | | DISTANCE | CE = 250 | FEET | | | | , | *************************************** | , | | | | | | | | - a | 1ESI 78-779-881 RIIN AL | 7-97 | | _ |
| DISE SC F-11 AF 32 | 00RCE 11A N 2A-13 | 7 SUI | NOISE SOURCE/SUBJECT: F-1114 NOISE SUPPRESSOR AF324-13 | SOR | 5 | OPERATION: ZONE 3 SINGLE GROUND | | TERBUK IGINE INUP (S | AFTERBURNER POWER Engine Runup (Suppressed) | w 6 |) METEON) TI) BL) RI | SE372 | PRESS HUMID | # N 11 11 0 | 252 | F X HG | | | AIRCRAFT CODE OPERATION CODE PROFILE VERSION 26 NOV 79 PAGE 34 | AFT TION LE VE V 79 | CODE CODE RSIO | 779 00102 N A |
| | | | | | ä | P=PNLT | | | | A=AL | يد | | | | | T=ALT | - | | | | | |
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| | • | 5 | | | | | | | , , | | | | | , | | • | | | • | | | |

| TABLE | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 250 | PR FEE | ES SURE T | SURE LEVEL | (08) | | | | | | | | | | DENTIFICATIONS OMEGA 8.2 TEST 78-779-00 | 1CATI(8.2 8-779 | TON: | |
|------------------------------|--|-------------------------|-------------|------------------------|--|--|------------------------|--------------|----------------|--------------------------------|---|-----|--------------------|------------|------------|--|------------------------|------------------------|-------------------|
| SE -11 F32 | i ~ | B JECT I SUPPRES SOR | 80 | OPER 20 SI GR | SERATION: ZONE 5 AF SINGLE EN GROUND RU | 46 AFTERBURNER F ENGINE RUNUP (SUPPRE | BURNE! | | ER) | METE TE BA RE OELT | ETEOROLOGY: TEMP BAR PRESS REL HUMID | 2 | 9.92 70 0 08 | N N N H C | | AIRCRAFT OPERATION PROFILE (28 NOV 79 PAGE C5 | - E - | CODE CODE ERSION | 779 00101 A |
| (BAND CENTER (FREQ (HZ) | | 9 | 50 | 96 | 2 | 5.0 | 6.0 | ANGL 70 8 | | DEGRE | ES) | 110 | 120 | 136 | 140 | 150 | 160 | 170 | 180 |
| 26 | * | 85 | 85 | 85 | 85 | 86 | 78 | 82 | 81 | 8 | 80 | 81 | 82 | 81 | 81 | 81 | 82 | 83 | 80 |
| | | 82 | 87 | 92 | 49 | 81 | 80 | 90 | 2 | 52 | 29 | 18 | 82 | 8 | 8 | 85 | 81 | 85 | 83 |
| 08 | 86 | 87 | 87 | 87 | 98 | 3 | 9 | 83 | 82 | 82 | 82 | 40 | 96 | 87 | 88 | 96 | 94 | 83 | 83 |
| 700 | 86 | 87 | | 87 | 96 | 88 | 88 | 82 | 83 | 3 | 86 | 85 | 85 | 49 | 49 | 9 | 48 | 83 | 82 |
| 125 | 85 | 8 | | 4 | 3 | 5 | 9 8 | 78 | 22 | 79 | 82 | 80 | 62 | 43 | 62 | 11 | 92 | 92 | 92 |
| 100 | \$ | 4 0 | 9 0 | 60 e | # . 60 6 | 다 3 80 a | 6, | 77 | 92 | 9,4 | 76 | 92 | 77 | 77 | 9 4 | 75 | 74 | 74 | *; |
| 250 | 82 | 9 KO | 0 60 | . ec | 9 0 | M 4 |) 49 00 00 00 | 9 M | - 80 - 7 | 9 0 | - 82 | 7.8 | | 2.2 | 2 2 | 2 2 | t M | 2 M | 7 2 |
| 312 | * | 82 | | 92 | 85 | 96 | 92 | 82 | 80 | 7.8 | 16 | 22 | 11 | 16 | 75 | 2 | 73 | 72 | 7 |
| 004) | 9 | 96 | 82 | 85 | 82 | 96 | 87 | 85 | 9 | 80 | 92 | 92 | 92 | 9. | 77 | 75 | 73 | 72 | 72 |
| 200 | 82 | 83 | | 96 | 88 | 86 | 82 | 49 | 9 7 | 80 | 22 | 28 | 79 | 7.8 | 11 | 92 | 92 | 25 | 1,4 |
| (630 | 83 | | | 86 | 96 | 82 | 85 | 83 | 81 | 79 | 11 | 11 | 78 | 11 | 92 | 75 | 75 | 73 | 72 |
| 000 | 84 | 8 | Ø | 89 | 80 | 8 6 | 92 | * | 82 | 80 | 11 | 77 | 11 | 92 | 25 | 22 | 74 | 72 | 70 |
| 1000 | # 60 | 9 | 84 | ₩ | 9 | 96 | 4 | 8 | 81 | 80 | 7.8 | 11 | 92 | 92 | 15 | 12 | 1/ | 72 | 7.0 |
| 1250 | \$. | 9 7 | 2 | 60 G | 99 | 86 | | 4 0 | 20 | 800 | 78 | 78 | 77 | 7 6 | 5 5 | 22 | 7, | 72 | 69 |
| 2000 | 4 4 | * | | , m | 3 6 | 8 0 | 3 0 | 3.7 |) (| 0 60 | 9 2 | 7.0 | 7. | | 9 6 | y 5 | 4 5 | 6.7 | . K |
| (2500 | 82 | 83 | 4 | 9 4 | 40 | 8 | 82 | 80 | 62 | 22 | 2.2 | : 2 | 73 | 7.7 | 70 | 69 | 69 | . 80 9 | 68 |
| 3150 | 78 | 90 | 81 | 81 | 81 | 79 | 78 | 22 | 75 | 7.4 | 72 | 71 | 69 | 99 | 99 | 29 | 29 | 62 | 63 |
| 0007 | 19 | 81 | 83 | 82 | 82 | 62 | 19 | 78 | 2.2 | 92 | 75 | 73 | 1. | 69 | 68 | 68 | 68 | 99 | 63 |
| 2005 | 77 | 2 | 90 | 80 | 29 | 22 | 11 | 11 | 11 | 15 | 72 | 2 | 68 | 99 | 63 | 62 | 61 | 61 | 9 |
| (6300 | 7.4 | 92 | 4 | 78 | 2 8 | 22 | 92 | 22 | 11 | 75 | 73 | 7.0 | 29 | 9 | 9 | 29 | 28 | 22 | 26 |
| 8000 | 75 | 92 | 78 | 11 | 92 | 25 | 73 | 73 | 73 | 7.1 | 70 | 99 | 6 2 | 58 | 52 | 53 | 25 | 55 | 21 |
| 00001 | 75 | 72 | 92 | 92 | 75 | 75 | 70 | 7.0 | 20 | 68 | 99 | 61 | 26 | 53 | 64 | 64 | 40 | 14 | 47 |
| (OVERALL | 16 | 98 | 66 | 66 | 66 | 26 | 97 | 95 | 3 6 | 93 | 95 | 36 | 92 | 95 | 95 | 91 | 06 | 96 | 90 |
| | | | | | | | | | | | | | | | 1 | | į | | |

| (TABLES | PERCE AS A | PERCEIVED NOISE LEVAS A FUNCTION OF BN | OISE LI | E L | (PNDB) AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | |) TOENTI) OMEGA) TEST | TOENTIFICATIONS OMEGA 8.2 TEST 78-779-80 | IFICATIONS A 6.2 76-779-001 | |
|---------------------|--|--|----------|-------|-------------------|--|---------------------------------------|--------|-----------------|-------|--|--------------|--------------------------------|--------------|------|---|---|-----------------------------------|--------------|
| NOISE SO | E SOURCE/SUBJECT: F-111A NOISE SUPPRESSOR AF32A-13 | WBJECT SE SUP | PRESSOI | SO. | OPERA | OPERATIONS ZONE 5 SINGLE GROUND | AFTERBURNER ENGINE RUNUP (SUPPR | . ~ | POWER ESSEDI | | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | . ~ v = | .s = 29.92 0 = 70 0.0 08 | 1 | | AIRCRAF OPERATI PROFILE 28 NOV PAGE I | RUN 05 AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE 05 | C00E C00E RS10I | 779 00101 |
| (OISTANCE (CFEET) | | 0 10 20 | 20 20 | R | 9 | 20 | 63 | 202 | ANGLE 83 | | (DEGREES) 90 100 | 110 | 120 | 130 | 740 | 150 | 160 | 170 | 180 |
| 200 | 100.2 | 410.4 | 111.6 | 111.5 | 411.4 | 100.4 | | | - | | 102.6 | | 404.7 | 4 . 6 | 2,00 | 9.40 | *** | 0.70 | 96.1 |
| 7 | 907 | | | | | | | | ٠. | | ٠. | | | • | | | | | 1 6 |
| 312 | 104.7 | 105.9 | 107.0 | 10% | 106.9 | 104.9 | 104.8 | 103.5 | 102.3 | 100.5 | 98.8 | 2 9001 | 97.2 | 95.9 | 94.8 | 96.0 | 93.4 | 92.4 | 92.9 |
| 9 | 102.3 | | | 104 | | 102.5 | | | | | | 95.6 | 8 . 46 | 93.6 | 92.4 | 91.7 | 91.0 | 90.1 | 89.2 |
| 200 | 99.9 | ** | | 102. | _ | 1001 | | _ | | | _ | 93.1 | 92.4 | 91.1 | 90.0 | 89.3 | 88.6 | 87.6 | 86.7 |
| 630 | 97.3 | | | 99 | 10 | 97.5 | | -4 | - | | m | 90.5 | 89.8 | 88.6 | 87.4 | 86.7 | 86.0 | 85.1 | 84.2 |
| 908 | 94.7 | | | | _ | 8.46 | | • | | | | 87.8 | 87.1 | 85.9 | 84.8 | 84.0 | 63.3 | 82.4 | 81.5 |
| _ | | | | | | | | | | | | | | | | | | | |
| 0001 | 91.8 | | | 93,9 | 93,9 | 95•0 | 91.9 | 90.5 | 89.2 | 87.3 | 92.6 | 84.9 | 84.2 | 83.0 | 81.9 | 81.2 | 80.5 | 79.6 | 78.5 |
| 1250 | 80 | | | | 97.6 | 88.9 | 88.9 | 87.4 | 86.1 | 84.2 | 82.5 | 81.7 | 81.1 | 99.0 | 79.0 | 78.3 | 77.6 | 76.5 | 75.6 |
| 1600 | 85.6 | | | 87. | 87.5 | 85.7 | 85.7 | 84.1 | | 80.8 | 79.1 | 78.4 | 77.9 | 76.9 | 76.0 | 75.3 | 74.6 | 73.5 | 72.5 |
| 200G | 82.1 | | | | 84.2 | 82.4 | 82,5 | 80.9 | | 77.3 | 75.4 | 4.9 | 74.6 | 73.7 | 72.8 | 72.1 | 71.4 | 70.3 | 69,3 |
| 2500 | 78.3 | 79.4 | | 4.00 | 80.5 | 7.8.7 | 78.7 | 77.1 | 75.8 | 73.4 | 71.5 | 71.0 | 71.1 | 70.2 | 69.3 | 68.5 | 67.8 | 299 | 65.6 |
| 3150 | 74.3 | | | | 76.5 | 24°6 | 7.5.7 | 73.0 | 71.7 | 69.2 | 67.3 | 9 9 | 66.9 | 66.0 | 65.1 | 4.4 | | 62.5 | 61.3 |
| 004 | 70.1 | 71.4 | | | 72.3 | 70.3 | 70.1 | 4.89 | 67.2 | 9.49 | 62.5 | 62.3 | 62.3 | 61.4 | 60.4 | 59.7 | | 27.1 | 56.5 |
| 2000 | 65.5 | | 99 | | 67.7 | 65.7 | 65,3 | 63,7 | 62,2 | 28.1 | 57.5 | 57.2 | 57.5 | 56.3 | 55.4 | 54.6 | 53.9 | 52.4 | 51.0 |
| 6308 | 4.09 | | 63 | 62.8 | 62.7 | 60.6 | 2.09 | 58.6 | 57,0 | 54.5 | 52.0 | 51.8 | 51.8 | 50.8 | 49.8 | 48.9 | | 46.2 | 44.7 |
| 9099 | 55.6 | 57.2 | 56.5 | 56.3 | 58.2 | 56.1 | 22.5 | 54.0 | 52,5 | 49.6 | 46.7 | 46.5 | 46.9 | 45.7 | 44.7 | 43.6 | 42.9 | 41.1 | 39.6 |
| | , | | | | | | | | | | | | | | | | | | |
| 10000 | 50.4 | | | 53, 2 | 52.9 | 50.9 | 50.8 | 49.1 | 47.6 | 44.1 | 41.6 | 60. 0 | 41.4 | 40. 3 | 39.5 | 38.1 | 37.3 | 35.7 | 33.6 |
| 12500 | 44.2 | | | 47. | 4.2.4 | 45.3 | 44.0 | 43.3 | 41.8 | 38.2 | 34.3 | 34.6 | 35.2 | 34.2 | 32.9 | 32.0 | 31.1 | 29.1 | 27.6 |
| 16000 | 36.8 | | 39,9 | 39° | 41.2 | 30.5 | 38,3 | 37.0 | 35.4 | 31.5 | 26.4 | 27.4 | 28.2 | 27.2 | 25.9 | 24.1 | 22.9 | 21.1 | 17.6 |
| 20090 | 28.5 | 36.0 | | 32 | 33,7 | 31.6 | 31.1 | 29,3 | 27,5 | 25.2 | 14.3 | 15.8 | 17.4 | 16.9 | 15.4 | 13.1 | 10.6 | 9.0 | 5. 2 |
| 25000 | 16.7 | | | 25 | 24.6 | 20.8 | 20.3 | 10.5 | 16.0 | 8.5 | 2,3 | £.3 | 6 .5 | 9.9 | 6.4 | 2.2 | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | , , , , | | | | | | | 100000 | | | | | | |

| 79 0161 A | 186 | 97.3 J 95.0 J 92.7 J | 7.9 5.3 2.6 | 79.6 8 75 | 33.6 27.6 17.6 7.4 |
|--|-------------------------|--|----------------------------------|--|--|
| IDENTIFICATION! OMEGA 8-2 TEST 78-79-001 | | 97.0 | ∽ + • | | 35.7 29.1 21.1 9.0 |
| 11CATIC 8.2 8.779- 5 TT CO 11ON CO 79 | 0 17 | 3 4 0 M | 0 m r | 0001100111 | m 40 0 |
| IDENTIFICATION ONE CAR B. 2 ONE CAR B. 2 TEST 78-77 RUN 05 TEST 78-77 PRCRATION PROFILE VE 28 NOV 79 | 166 | 7 99. 2 94. 8 92. | | | 37. |
| | 150 | 99.7 97.5 95.2 92.8 | 90. 87. 85. | 00000000000000000000000000000000000000 | 336 136 136 136 136 136 136 136 136 136 |
| ÷ | 140 | 99.3 97.1 94.8 92.4 | 90.0 87.4 84.8 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 39.2 32.9 25.9 |
| E HX | 130 | 100.4 96.2 95.9 | 91.1 88.6 85.9 | 44000 44000 44000 46000 46000 46000 46000 46000 | 40.3 34.2 27.2 16.9 |
| 129,92 70 | 120 | | * 60 - 1 | 666.9 77.2.6 77.4.6 77.6.9 75.6.9 75.6.9 | 44. 35. 17. 17. 14. |
| - SS | • i | - | 900 | 002V16V606 | 40.0 34.6 15.0 |
| EOROL TEHP BAR REL | ES) | | 94.6 | m 4 2 0 0 0 0 0 0 0 | 4 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| HET | , uer (DEGRE 90 1 | 044V | 2 2 8 | | 22.5 22.5 31.5 31.5 31.5 31.5 31.5 31.5 31.5 31 |
| × 6 | SI E | 4 + 10 3 4 4 6 3 4 6 5 4 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | m + 10 | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | |
| B) DURCE JRNER POWER (SUPPRESSED) | A S | 107. | | | 47. 41. 35. |
| SOURCE SOURCE BURNER E (SUPP | 9,2 | 106.6 106.6 104.3 | 99.4 96.9 94.1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 49.4 43.0 27.0 |
| RO PER INC. | 9 | 110.3 108.1 105.8 153.4 | 101.0 98.4 95.7 | | 9 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| LEVE ANCE NEONS | 29 | 1110.2 107.9 105.7 | | 992 992 993 993 993 993 993 993 993 | 36.9 38.0 31.0 30.0 30.0 30.0 30.0 30.0 30.0 30 |
| NO 1 | 3 | 111. 109.2 106.9 | 102.1 99.5 96.8 | | 500 410 410 410 410 410 410 410 410 410 4 |
| GLE AND | - 96 | 1.0% 2.0% 5.00% | 400 | **** | 22.22 |
| OF ANGI | 26 | | 102.2 11 99.7 97.0 | | 7 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 |
| P | 10 | - # OI OD 10 | | | 0 r W 3 r |
| | | 11 11 11 11 11 11 11 11 11 11 11 11 11 | e 7.0 | 50000443484 | 12001 |
| ES TONE-CORREC AS A FUNCTI E SOURCE/SUBJECT F-111A NOISE SUP AF32A-13 | į | 110.3 168.1 105.6 | 101, 98, 95, | 20000000000000000000000000000000000000 | 2 d d d d d d d d d d d d d d d d d d d |
| TABLES NOISE SC AF3; | DISTANCE (FEET) | 7 7 7 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 0 0 0 0 0 0 0 0 0 0 0 0 | | 10000 12500 16000 2000 |

| TABLE: A- | WE I GH | 1TED 0 | A-WEIGHTED OVERALL | S | UND LEVEL | (DBA) | | | | | | | | | |) TOENT | DENTIFICATION | IONS | |
|---------------------------------------|---------|--------------|--------------------|------------------|--------------|-------|------------------------------------|--------------|-----------------|--------------|--|----------------|------------------|----------------|------------|---|---------------|----------------------------|-------------------|
| AS | ⋖ ; | FUNCTION OF | N OF A | ANGLE AN | AND DISTANCE | (| FROM SO | SOURCE | | | | | | | 1 | TEST | TEST 78-779- | 9-001 | |
| NOISE SOURCE/SUBJECT | NO ISE | SUECT SUPP | ECT s | | OPERATOR ZC | | AFTERBURNE ENGINE RUNUP (SUP | ~ ~ | POWER ESSED) | * 8 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | #29,92 #29,92 | F N N | | AIRCRAF OPERATI PROFILE 28 NOV | | CODE 7 CODE 6 ERSION | 779 66161 A |
| DISTANCE (FEET) | - | 70 | 20 | 98 | ş | 20 | 69 | 92 | ANGLE Bu | . ~ ~ | DEGREES) 0 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 160 |
| | 5.8 | 97.1 | 98.4 | 98.5 | 98.6 | 9.96 | 96.3 | 94.9 | 93.6 | 91.4 | 39.4 | 88.6 | 88.0 | 87.0 | - | 4.59 | 84.8 | 83.2 | 81.7 |
| | 3.6 | 95.0 | 96.3 | 96.3 | 96.4 | 4.40 | 24.2 | 92.7 | 91.4 | 89.2 | 87.2 | 86.5 | 85.9 | 84.9 | 90 | 63.3 | 82.7 | 81.1 | 79.6 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 91°9 | 90.0 | 94.1 | 94.0 | ہ ہ | 90.06 | 89.8 | 86.3 | 67.0 | 3 to 00 | 82.4 82.4 | 82.1 | 81.6 | 95.00 811.6 | r ~ | 79.8 | 70.0 | 76.8 | 75.3 |
| | 17.0 | 86.3 | 9.6 | 9.6 | 8 | 87.8 | 87.6 | 86.1 | 84.7 | 82.5 | 900 | 79.8 | 79.4 | 78.4 | . . | 76.6 | 76.2 | 74.6 | 73.1 |
| | 84.7 | 85.0 83.6 | 87.2 | 87.3 85.0 | 87.5 85.2 | 85.5 | 85.3 82.9 | 63.6 81.4 | 82.4 89.0 | 80.1 77.7 | 78.0 75.6 | 77.5 75.1 | 77.1 | 76.1 73.8 | 75.3 | 74.6 | 74.1 | 72.3 | 6.0.99 |
| | 9.8 | 81.1 | 82.4 | 82.5 | 82.7 | 7.8.7 | 36.5 | 79.0 | rv a | 75.2 | 73.1 | 72.6 | 72.3 | 71.4 | ۰ و | | ∾ € | 67.6 | 66.2 |
| 1600 | 77 | 76.8 | 77.2 | 77.3 | 77.6 | 75.6 | 75.4 | 73.8 | | 0.07 | 67.8 | 4.79 | | 66.3 | | | 2.49 | 9.29 | 61.1 |
| | . 0 | 70.5 | 71.5 | 71:1 | 71.9 | 70.07 | 69.7 | 68.1 | و ه | 64.2 | 62.0 | 61.7 | N 10 | 60.7 | | 4 64 | ص ۸ | 56.9 | 55.4 |
| | 5.7 | 67.1 | 68.3 | 68,5 | 68.7 | 66.8 | 66.5 | 6 4 9 | | 61.0 | 58.7 | 58.5 | m | 57.5 | • | - | • | 53.7 | 52.2 |
| | 7 P | 59.7 | 61.0 | 63. 61. | 61°3 | 59°3 | 98.8 | 57.2 | ۰. | 53.4 | 51.1 | | | 50.0 | , | o 10 | | 56.1 46.1 | 44.50 |
| 6300 5 | | 55.4 | 56.7 | 56.8 | 57.0 | 55.0 | 54.4 | 52.9 | | 0°64 | 46.0 | 46.5 | | 45.5 | • | ~ | 43.6 | 41.8 | 40.2 |
| | 9.6 | 51.2 | 52.5 | 52.6 | 52.8 | 50.8 | 50.3 | 48.7 | m | 44.0 | 45.5 | 45.4 | | 41.6 | • | ~ | 39.5 | 37.9 | 36.3 |
| 10000 | 5.3 | 46.6 | 47.9 | 48.0 | 48.2 | 46.3 | 45.8 | 66.3 | 42.8 | 40.3 | 36.0 | 37.9 | 36.0 | 37.2 | 100 | • | 35.1 | 33.6 | 32.1 |
| | 40.3 | 41.6 | 42.8 | 45.9 | 43.2 | 41.3 | 41.0 | 39.4 | | 35.4 | 33.0 | 33.1 | 33,2 | 32.5 | • | - 4 (| 30.4 | 28.9 | 27.6 |
| | 0 . 4 | 36.0 | 37.2 | 37.3 | 37.6 | 35.9 | 35.7 | 34.2 | 32.8 | 30.1 | 27.5 | 27.8 | 28•1 | 4.72 | 26.7 | 25.9 | 25.2 | 23.9 | 1 2.22 |
| 25000 2 | 22.2 | 23.2 | 24.2 | 5 4 7 8 | 25.1 | 23.6 | 23.7 | 25.2 | 20.9 | 10.1 | 15.7 | 16.1 | 16.6 | | | ص د | 13.0 | 12.9 | 12.1 |
| | | | | | | | | | | ı | | ı | | ı | | | | | - |

| | • | | Ь | ų | AND DIS | DISTANCE | FROM SC | SOURCE | | | | | | | |) OMEGA | 54 6.2 I 76-77 | 100-6 | |
|---|--|---------|--------|------|-------------------------------------|--------------|---------------------------------------|--------|-----------------|--------------|--|-------------------------|------------------------|---|-----------|---|---|-----------------------|--------------|
| NOISE SOURCE/SUBJ F-111A NOISE AF32A-13 | SOURCE/SUBJECT: 111A NOISE SUPP 32A-13 | UBJECT: | ESSO | α | OPERATIONS ZONE SINGLE GROUNG | ! - 10 111 0 | AFTERBURNER ENGINE RUNUP (SUPPI | i ov | POWER ESSED) | T Ö | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | LOGY: PRESS HUMIO | = 59 =29.92 = 70 | A N N N N N N N N N N N N N N N N N N N | | AIRCRAF OPERATI PROFILE 26 NOV PAGE G | RUN US AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE GS | CODE CODE RSION | 779 00101 |
| DISTANCE (FEET) | 9 | 10 | 20 | 30 | 9 | 20 | 3 | 202 | ANGLE SC | 96 | DEGREES) B 140 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 188 |
| | 6 96 | 98.2 | 98. | 98.5 | | 97.3 | 97.3 | 95.6 | 94.1 | 92.0 | 90.0 | 89.1 | 88.0 | 87.0 | 86.1 | 86.5 | 86.1 | 83.2 | 82.9 |
| 315 | 94. 6 92. 6 | 93.8 | 94. | 946 | * M | 93.0 | 33°C | 93.9 | 89.7 | 87.6 | 9 . 5 . 6 . | 94.9 | 63.8 | 82.8 | 81.9 | 62.3 | 81.9 | 79.0 | 78.7 |
| | 90.4 | 91.6 | 97.6 | 91.9 | 92.1 | 90.8 | 90.8 | 89.1 | 87.5 | 95.4 | 83,3 | 82.6 | 91.6 | 80.6 | 79.7 | 80.2 | 79.1 | 76.8 | 76.5 |
| 5.00 | 88.1 85.8 | 89.3 | 89.6 | 89.6 | 89.8 7.5 | 88.6 | 88.6 86.6 | 86.8 | 85.0 | 83.1 | 81.67 | 78.1 | 79.4 | 78.4 | 77.5 | 78.0 | 77.5 | 74.6 | 74.3 |
| | 83.4 | 84.6 | 84.9 | 85.0 | 85.2 | 83.9 | 83.9 | 82.1 | 80.5 | 78.3 | 76.2 | 75.6 | 7.4.7 | 73.8 | 73.0 | 73.4 | 73.8 | 70.0 | 69.7 |
| | 81.6 | 82.2 | 82.4 | | | 81.5 | 81.5 | | 78.0 | 75.8 | 73.7 | 73.2 | 72.3 | 71.4 | 70.6 | 71.0 | 70.6 | 67.6 | 4.29 |
| | 78.4 | 79.6 | 79.9 | • | | 79.0 | 79.0 | | 75.5 | 73.2 | 71.1 | 20.6 | 69.8 | 68.9 | 68.2 | 68.5 | 68.1 | 65.1 | 64.9 |
| | 75.8 | 77.0 | 77.2 | 77.3 | 77.6 | 76.4 | 76.4 | 74.6 | 72.9 | 70.6 67.8 | 6.8° | 68.0 | 67.2 54.5 | 66.3 | 65.6 | 66.0 | 65.5 | 62.6 59.9 | 62.3 59.5 |
| | 70.1 | 71.3 | 71.5 | | | 70.7 | 70.7 | | 67.2 | 64.8 | 62.6 | 62.2 | 61.6 | 60.7 | 60.0 | 60.4 | 59.9 | 56.9 | 56.6 |
| | 6.99 | 68.1 | 68.3 | | | 67.5 | 67.4 | | 63.9 | 61.5 | 59.3 | 59.0 | 58.3 | 57.5 | 56.8 | 51.5 | 56.7 | 53.7 | 53.4 |
| | 63.2 | 64.4 | 6 ** 9 | • | 65, 3 | 63.9 | 63.7 | | 60.2 | 57.9 | 55,6 | 55, 3 | 54.0 | 54.0 | 53.5 | 53.4 | 52.9 | 20.5 | 49.5 |
| | 59.0 | 60.3 | 61.0 | • | | 59.7 | | | 56.1 | 53.7 | 51.5 | 51.2 | 2005 | 50.0 | 49.2 | 49.2 | 48.7 | 46.1 | 45.2 |
| 6300 | 7.0 | 55.8 | 56.7 | • | 57.0 | 55.3 | 54.00 0.00 | 53.2 | 51.6 | 5 to 5 | 47.0 | 46.7 | 40.4 | 45.5 | 0 · 4 · 4 | 7 · 4 · 4 | 100 | 41.0 | 40.6 |
| | • | | | | | | • | | • | • | | | | | | | | ; | } |
| | 45.3 | 46.6 | 47.9 | • | 48.2 | 46.3 | 45.8 | | 42.8 | 40.3 | 38.6 | 37.9 | 38.0 | 37.2 | 36.5 | 35.8 | 35.1 | 33.6 | 32.1 |
| | 40.3 | 41.6 | 45.8 | • | 43.2 | 41.3 | 41.0 | 39.4 | 38.0 | 35.4 | 33.0 | 33.1 | 33.2 | 32.5 | 31.8 | 31.1 | 30.4 | 28.9 | 27.6 |
| 16000 | 34.8 | 36.0 | 37.2 | 37,3 | 37.6 | 35.9 | 35.7 | 34.2 | 32.8 | 30.1 | 27.5 | 27.8 | 28.1 | 27.4 | 26.7 | 25.9 | 25.2 | 23.9 | 22.7 |
| | 28.7 | 29.9 | 31.0 | • | 31.6 | 30.0 | 30.0 | 28.4 | 27.1 | 24.3 | 21.7 | 22.1 | 22.5 | 21.8 | 21.2 | 20.4 | 19.6 | 18.5 | 17.5 |
| | | | | | | | | | | | | | | 1 | 1 ! | | | | |

| ABLEI | SION | MOISE LEVEL | NS I | 2 | CT ION OF | | E ARC | ANGLE AROUND SOURCE | OURCE | | | | | | | | | DENTIFOMEGA | IDENTIFICATIONS OMEGA 0.2 | Ë |
|--------------------------|------------|------------------|---------------|--------|-----------|--|-------|------------------------------|---|---------------|------|--|--------------|------------|--------------------|-------|-------|--|--|-----------------------------|
| | DISTANCE | INCE = | 250 | FEET | | | | | | | | | | | | | ^ = | TEST 1 | 78-779-881 | = |
| OIS | A NO | SUBJEC SUBJEC | T1 IPPRESS | 80 | 50000 | OPERATIONS ZONE S SINGLE GROUND | | AFTERBU ENGINE RUNUP (| AFTERBURNER POWER ENGINE RUNUP (SUPPRESSED) | OWER SSED) | 2000 | NETEOROL TEMF BAR BAR REL DELTA N | PRES HUNI | | 59 F 70 X 18 | 9 | | AIRCRAFT OPERATION PROFILE V 28 NOV 79 PAGE JS | AIRCRAFT CODE 7 OPERATION CODE 0 PROFILE VERSION 28 NOV 79 PAGE JS | DE 779 DE 00101 ION A |
| | | | | | ď | P=PNLT | | | | • | A=AL | | | | — | T=ALT | | | | |
| • | ا م | | | | • | | • | | | | | | | • | | • | 1 | • | | |
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| 6 R 118 | • | | •• | | • • | | • • | | • • | | | •• | | • • | < | . TA | | •• | | • |
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| S 138 | - | | •• | | • • | | • • | | | | | • | | • • | × | • • | | • | | •• |
| 140 | - | | •• | | • • | | • • | | | | | •• | | • • | × | • • | ۵ | • • | | •• |
| 150 | ن ب و | • | • | • | • • | • | • | • | • | • | • | • | • | • | . AT | • • | ď. | • | • | • |
| 160 | - | | •• | | • • | | • • | | •• | | | •• | | • • | Y4 | • • | ٥ | •• | | •• |
| 170 | - | • • | • • | • • | • • | | • • | | | | | | | • • | J | • • | Q. | •• | | •• |
| 180 | د ب و | • | • | • | • • | • | • | • | | • | • | • | • | • • | • | • | 4 | • | • | • |
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| 1-30 NOISE SUPPRESSOR 1-30 NOISE SUPPRESSOR 1-36 NOISE SUPPRESSOR | 1-38 NOISE SUPPRESSOR 1-38 NOISE SUPPRESSOR | 1-36 NOISE SUPPRESSOR 1-38 NOISE SUPPRESSOR | 1-36 NOISE SUPPRESSOR 1-36 NOISE SUPPRESSOR |
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| | | | |
| | NOISE PRODUCED ON THE | ON THE GROUND BY | |
| | T-38 NOISE | SUPPRESSOR | |
| | DURING GROUND | RUN-UP OPERATIONS | |
| | TEST AIRCRAFT PROFILE V | 77-733-001 T CODE: 733 VERSION: A PROGRAM OMEGA 8.2 | |
| | Power Setting | Page | |
| | Idle Power, 48% RPM Engine Runup, 75% RPM Engine Runup, 94% RPM Military Power, 99.5% RPM Afterburner Power | 249-254 255-260 261-266 267-272 | |
| | FOR EACH POWER SETTING, THE F | FOLLOWING DATA ARE PROVIDED: | |
| | NORMALIZED DATA AS A FUNCTION OF ANGLE AN NORMALIZED SPL AT 250 FEET NOISE LEVELS AS A FUNCTION OF ANGLE AND D PERCEIVED NOISE LEVEL TONE-CORRECTED, PERCEIVED NOISE LEVEL A-WEIGHTED OVERALL SOUND LEVEL TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND LEVEL SOUND SEALL SOUND LEVEL SOUND LEV | OF ANGLE AND FREQUENCY ANGLE AND DISTANCE FROM SOURCE NOISE LEVEL LEVEL OOVERALL SOUND LEVEL ANGLE AT 250 FEET FROM SOURCE | 61 |
| 4.3 m & | ROSPACE MEDICALIGET PATTERSON A | RESEARCH LABORA IR FORCE BASE, | ~ 0 0 × 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| USAF T-36 MOISE SUPPRESSOR USAF T-36 MOISE SUPPRESSOR USAF T-36 NOISE SUPPRESSOR | T-36 NOISE SUPPRESSOR T-36 NOISE SUPPRESSOR T-36 NOISE SUPPRESSOR | USAF T-36 NOISE SUPPRESSOR T-36 NOISE SUPPRESSOR T-36 NOISE SUPPRESSOR USAF T-36 NOISE SUPPRESSOR T-36 NOISE SUPPRESSOR USAF T-36 NOISE SUPPRESSOR T-36 NOISE SUPPRESSOR USAF | T-36 MOISE SUPPRESSOR T-36 NOISE SUPPRESSOR T-36 NOISE SUPPRESSOR |

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|--|---|--------------------------|-----|---------------|---------------|---------------|----------|------------|-------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|------------------|-----|------|-----------|---------------|------------|
| | 733 00113 A | 180 | 73 | 70 | 99 | 69 | 9. | 4 (| 6 4 6 4 | 60 | 60 × | 90 | 60 < | e0 × | 28 | 2 8< | | 7 7 7 | 7 7 7 | , 6 | 51 | 2 | 25 | ‡ ‡ | 7.8 |
| ON 6 | CODE 7 | 170 | 92 | 70< | 71. | 7 | 70 | 62 | 63 | 63< | 62< | 61< | 61< | 60 | 594 | 28 | 10 I | ~ 1 | 76 | , , , , | | 25 | 9 | 64 | 79 |
| FICATION: 8.2 77-733-001 | FT C 10N C E VER 79 | 160 | 70 | 70 < | 11 | 73 | 70 | 9 9 | 7 7 7 4 | 58< | 58< | 58< | 58< | 28< | 58< | 584 | 10 I | , | , u | 2 | 56 | 52 | 61 | 51 | 79 |
| DENTIFICATION OMEGA 8.2 TEST 77-733-0 | ACCAFT OPERATION PROFILE VE 28 NOV 79 PAGE C1 | 150 | 70 | >69 | 29 | 73 | 73 | 63 | 9 | 26 | 26 < | 51 < | 57< | 57. | 58 < | 58 | 9 6 9 | D (| n u | ה ת ה | . G | 22 | 61 | 25 | 62 |
| | | 140 | 12 | 75 | 92 | 15 | 52 | 12 | 29 | 99 | 69 | 61 | 54 | 55 | 57< | 584 | 20 | 9 (| P 0 | 9 LF | 61 | 9 | 19 | 25 | 83 |
| | FIX | 130 | 75 | 76 | 73 | 47 | * | 90 | 67 67 | 65 | 62 | 29 | 58< | 584 | 57 < | 57< | 20 | ۲ ر ۱ ر | - u | 6 0 | | 20 | 63 | 53 | 82 |
| | 59 9.92 70 0.08 | 120 | 73 | 11 | 69 | 69 | 77 | 62 | 6 S | 60 | 21 | 57< | 57< | 56 < | 26 < | 264 | 22 | ָ מַ | D 4 | * 0 | 8 | 26 | 61 | 20 | 62 |
| | 678 SS = 2 IID = 0. | 110 | 7.1 | | | >69 | 69 | \$ 0 9 | 24 | 25 | 25 | 52< | 55< | 53< | 53< | 544 | ž | 5 5 | , | , c | 25 | 2 | 28 | 4 | 78 |
| | TEMP TEMP BAR PRESS REL HUMID | ES) | 68 | 68 | 67 < | 999 | 99 | 63 | 614 | 60 | 28 | 58< | 57< | 26 < | 554 | 540 | 51 | v : | * 4 | , <u>.</u> | 2 | 27 | 55 | 46 | 92 |
| | METE BA BA BA | (DEG4EES) 90 100 | 65 | >99 | 99 | 67 < | 29 | 40 | 624 | 61 | 60 < | 26 | 58< | 57< | 2 8< | 55 | ż. | , , | 707 | , « | 23 | 64 | 5 | \$ | 92 |
| |))))))))))))))))))) | 31.8 80 | 68 | 66 | 65 < | 63< | 29 | 62 | , v | 20 | 52 | 55< | 55 | 55 | 55< | 55 | 20 | 2 | 77. | , ec | 51 | 6 | 54 | | 4. |
| | Z RPM (SUPPRESSED) | A Y | 65 | 65 < | >99 | | 99 | 4 0 | 78 Y | 25 | 25 | 57< | 2 9< | 26 < | 55 | 22 | , v | ה ה | , i | M 4 | 20 | 52 | 58 | £ 8 | 15 |
| â | +8% RI | 99 | 7.7 | 704 | 70< | >69 | 68 | 62 | 9 9 | 61 | 28 | 26 | 26< | 26 | 20 | 26 | 20 | 2 : | U 11 | 2 0 | 58 | 5.00 | 61 | 51 | 78 |
| נר (90) | TONER 48% FENGINE TO RUNUP (S | 55 | 69 | 68 | 69 | >69 | 20 | 69 | 2 G | 61 | 9 | 26 | 96 | 2 9 | 21 | 21 | 6 2 | * : | 7 | 4 6 | 9 | 60 | 63 | 23 | 79 |
| . LEVEL | RATION: DLE PON INGLE E | 0.7 | 68 | >69 | 70 < | 714 | 72 | 69 | 2 9 | 9 | 19 | 20 | 29 | 53 | 23 | 61 | 62 | <u>.</u> | 6 4 | 3 2 | 99 | 69 | 29 | 23 | 81 |
| ES SURE T | 00E | 30 | 69 | | 58< | 99 | 77 | 6 0 | 2 6 9 | 65 | 99 | 61 | 20 | 61 | 9 | 61 | 65 | 9 (|)) | 2 2 | 9 | 65 | 70 | 9 | 81 |
| P.R.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E. |) | 50 | 68 | | >69 | 70< | 7.1 | | # M | | 65 | 62 | 63 | 49 | 63 | 9 | 29 | ָרָרָ סי | 0 9 | 200 | | 99 | 70 | 19 | 91 |
| D SOUND E BAND = 250 | ESSOR | 9 | 72 | 72< | 71 < | 714 | 2 | 67 | 3 3 | 9 | 65 | 23 | 9 | 9 | 9 | 9 | 29 | 8 | , v | 3 5 | 79 | 63 | 69 | 23 | 81 |
| NORMALIZED 1/3 OCTAVE DISTANCE = | SUBJECT : SUPPRESSOR | 7 | 71 | 7.0 | 71< | 72< | 73 | 9 0 | 9 9 9 | 63 | 9 | 52 | 26 | 30 | 55 | 264 | 22 | ?! | 2 4 |) P | 70 | 22 | 63 | 53 | 79 |
| | SOURCE/ 8 NOISE 2A-18 | BAND CENTER FREQ (HZ) | | 63 | | 100 | 125 | 9 | 250 | 315 | 00, | 200 | 630 | 800 | 1000 | .50 | 9 (| 3 |) : ! | | 9 | 00 | 900 | 000 | OVERALL |
| TABLE | AF | BAND | | _ | | + | + | ન (| | ~ | . | ~~ • | 9 | • | 97 | 75 | 160 | 7 6 | | | | 630 | 78 | 10001 | ((0VE |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| | | <u> </u> | | | | |
|--|---|--------------------|----------------------|--|--|-------|
| _ | 733 80113 | 180 | 87.1 84.8 82.4 | 77.5 | 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| FICATIONS 8.2 77-733-881 | CODE ON CODE VERSION | 170 | 89.5 | 81.8 79.2 76.4 73.4 | | |
| FICAT 8.2 | AFT TION LE VE V 79 | 160 | 89.0 | 01.6 76.9 76.8 | | |
| IDENTIFICATIONS OMEGA 8.2 TEST 77-733-80 | AIRCRAFT OPERATION PROFILE VI 28 NOV 79 PAGE D1 | 150 1 | 90.0 87.7 65.2 | | | |
| <u> </u> | | # | | | | |
| | 9 | 37 | | 79.0 | 00000000000000000000000000000000000000 | |
| | FHX | 130 | 90.1 87.8 85.3 | 62.7 80.1 77.2 74.2 | | |
| | = 59 = 29,92 = 70 | 120 | N a a | 66.6 76.1 75.3 | \$ | |
| | ့ ဖွင့် | • | 99 4 | w & & & | N | |
| | 25 25 2 | 3 | 87. | ¢ % į į | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| | METEOROLOGY S TEMP BAR PRES REL HUMI DELTA N = | GREES) | 86.8 84.4 82.6 | 79.5 76.8 74.0 71.0 | 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | |
| | 2000 | CDEGREES 90 100 | 85.6 83.3 | 78.4 75.7 72.9 69.9 | | |
| | SSED) | ANGLE | 84.6 82.3 79.8 | 77.3 74.7 71.9 69.0 | 1000445000 100040040 100040040 100040040 | |
| SOURCE | K RPH (Suppressed) | 20 | | 77.3 | 666787448 6469448 4484656448 | |
| FROM SOL | 4 Z G | 9 | | 83.1 80.4 77.6 74.5 | 20000404000000000000000000000000000000 | |
| | · • · · · | 20 | | | \$2000000000000000000000000000000000000 | |
| ISTANCE | RATIONS IDLE P SINGLE GROUND | | | | | |
| (PNDB) And distance | R 300 | 3 | 900 | 87.8 85.8 79.8 | 60000000000000000000000000000000000000 | |
| _ wi | | 8 | | 88. 85. 79.9 | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | |
| SE LEVEI OF ANG | SOR | 50 | 97.1 94.7 92.3 | 89.7 87.0 84.1 81.0 | 77777777777777777777777777777777777777 | |
| PERCEIVED NOISE L AS A FUNCTION OF | E SOURCE/SUBJECT: 1-38 NOISE SUPPRESSOR AF32A-18 | 18 | | 87.7 85.0 82.1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| SCEIVE A FUN | SOURCE/SUBJECTS 38 NOISE SUPPRE 324-18 | | | 81.7 8 79.0 8 76.2 8 73.1 7 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | |
| PER | DURCE B NO | • | 0 0 0 | 8 K K K | | |
| TABLE: PERC | NOISE SC 1-3. AF3. | DISTANCE (FEET) | 200 250 315 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 20000 |

| 00000000000000000000000000000000000000 | 44.0 47.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41 | - - - - - - - - - - - - - - - - - - - | | |
|--|---|---|---|--|
| | | 0 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 74.3 73.8 71.7 70.4 70.3 59.8 67.6 66.3 62.4 65.4 65.4 66.5 57.3 56.3 59.9 50.6 51.6 56.1 67.2 63.0 54.5 42.9 39.8 33.8 26.3 34.5 30.6 24.6 26.2 23.0 15.7 13.5 12.1 11.4 6.8 2.3 | 74.5 76.0 74.3 73.8 71.7 70.4 3 70.4 72.0 70.3 69.6 67.6 66.3 6 66.2 67.9 66.4 65.4 63.2 61.6 3 57.3 59.0 57.3 56.9 53.9 56.9 6 51.4 53.3 51.6 56.1 47.2 43.7 8 44.6 46.3 44.5 42.9 39.8 35.8 5 56.7 30.3 26.2 23.0 15.7 13.5 0 6.8 19.6 12.1 11.4 .8 2.3 |

| (TABLE: A-WEIGHTED OVERALL | A- WE 1G | A-WEIGHTED OVERALL | VERALL | S | UND LEVEL | (DBA) | | | | | | | | | |) I DENTI | IDENTIFICATIONS | IONE | |
|------------------------------|---|--|-------------|---------|---|-------|--------------------------------|-----------------------|-------------|----------|---|----------------|------------------------|-------|------|--------------|-----------------|---------------------------|--------------|
| | AS | A FUNCTION OF | N OF A | ANGLE A | AND DISTANCE | - 1 | FROM S | SOURCE | | | | | | 1 | |) TEST | | 77-733-001 | |
| 1-36 1-36 1-36 1-36 | JRCE/SU NOISE 1-18 | E SOURCE/SUBJECT: 1-38 NOISE SUPPRESSOR AF32A-18 | SSOR | | OPERATIONS IDLE P SINGLE GROUND | | DWER 48% ENGINE RUNUP (S | K RPH (Suppressed) | SSED) | * 6 | METEOROLOGY TEMP BAR PRE: REL HUN: | PRESS HUNID | # 59 #29,92 # 70 | T M M | | PAGE NO PAGE | - " - | CODE 1 CODE 1 RSION | 733 06113 |
| (OISTANCE (FEET) | • | 97 | 2 | 98 | 3 | 50 | 3 | 9,2 | ANGLE 83 | 9 | GREES) 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 299 | 72.8 | 79.5 | 81.7 | å. | 79.7 | 76.5 | 74.8 | 71.3 | 69.5 | 70.3 | 7.8.7 | 70.6 | 4 0 U | | N 6 | . | 72.6 | 73.2 | 72.5 |
| 315 | 68.8 | | 76.9 | ŝ | 6.4 | 71.8 | 69.2 | 66.7 | 65.0 | 6.65 | 66.1 | 65.9 | ٠ - | | n 40 | . N | 67.9 | 66.6 | 4.09 |
| 004 | 65.5 | | 4:4 | ň. | 72.4 | 69.3 | 66.8 | 64.3 | 62.7 | 63.6 | 63.8 | 63.4 | ~ (| 66.8 | ω. | ~ (| 65.5 | 66.3 | 69.9 |
| 630 | 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 69.1 | 6.00 | 67.0 | 64.0 | 61.5 | | 57.8 | 56.6 | 58.8 | 56.2 | | | | 61.5 | 60°4 | 61.4 | 61.1 |
| 909 | 57.6 | | 66.3 | ķ | | 61.2 | 58.7 | 56.6 | 55.3 | 56.3 | 2 99 | 55.4 | 6.99 | 59.1 | 10 | • | 27.1 | 56.9 | 58.7 |
| 1900 | 54.8 | 61.2 | 63.4 | | 61.2 | 56.3 | 55.8 | 53.8 | 52.6 | 53.8 | 53.6 | 52.5 | 54.1 | 56.3 | 57.7 | 55.9 | 54.9 | 56.3 | 56.1 |
| 1250 | 51.8 | | 60.4 | 400 | 56.0 | 55° | 52.7 | 50.0 | 6.64 | 51.1 | 50.0 | 49.5 | 51.2 | | - | 53.0 | 52.1 | 53.6 | 53.4 |
| 2008 | 45.5 | 27. | 53.9 | 200 | 51,0 | 40.7 | 46.2 | 0 4 | 4 % 9 4 | + 20 · 4 | | 45.9 | 45.1 | | 49.5 | 46.7 | 46.1 | 47.9 | 47.8 |
| (2500 | 42.0 | 48. | 50.4 | 4 8. | 47.7 | 45.1 | 42.7 | 41.6 | 40.7 | 45.2 | 41.7 | 39. 4 | 41.8 | _ | | 43.3 | 42.9 | *** | 44.7 |
| 3150 | 38.3 | 44.6 | 46.8 | , . | 4 6 6 6 | 41.3 | 39.0 | 36.1 | 37.2 | 36.8 | 36.2 | 35. 7 | 36.3 | 40.3 | | 39.8 | 39.5 | 41.5 | 41.3 |
| 9005 | 9 | 36.2 | 36.4 | | 9 10 10 10 10 10 10 10 10 10 10 10 10 10 | 32.8 | 30.7 | 30.1 | 29.3 | 900 | 30.0 | 27.6 | 30.0 | 32.2 | | 31.8 | 31.7 | 7 . MM | 33.5 |
| 6300 | 25.4 | 31.5 | 33.8 | 310 | 30.5 | 20.0 | 26.1 | 25.5 | 24.8 | 26.4 | 25.9 | 23.0 | 25.9 | 27.7 | 27.7 | 27.3 | 27.3 | 29.4 | 29.1 |
| 90 00 ° | 21.3 | 26.8 | 29.2 | 26.8 | ĸ. | 23.5 | 21.7 | | 50.6 | 22.5 | 21.9 | 10.8 | 21.8 | 23.8 | 23.7 | 23.1 | 23.1 | 25.4 | 24.9 |
| 10889 | 17.6 | | 24.4 | | 20.7 | 18.7 | 17.2 | 16.8 | 16. 4 | 18.4 | 17.7 | 144.3 | 17.5 | 19.5 | 19.7 | 18.5 | 18.7 | 21.1 | 100 |
| 12500 | 12.6 | | 19.4 | 17. | 15.6 | 13.6 | 12.4 | 12.1 | 11.2 | 'n | 13.2 | | 12.9 | 15.3 | 15.5 | 13.7 | 13.9 | 16.4 | 15.6 |
| 16000 | 9.0 | | 14.0 | 11. | ÷ | 8.8 | 7.6 | 7.1 | 9 | 9.0 | 9.4 | 6. | 9.2 | 10.0 | 11.4 | 9.6 | 6.9 | 11.5 | 10.5 |
| 28000 | 3.5 | 6.3 | 9. (| • | 5.1 | 3.B | 5. 6 | 1.8 | • | 3.8 | 3.2 | m • | 3° 6 | 6.3 | 7.2 | 3.5 | 3.6 | 2.9 | 5.1 |
| | | 1:1 | 9 | ä | 7 | | | | | | | | | 2.0 | 3.1 | | | • | |

| NOISE SOURCE/SUBJECT! T-38 NOISE SUPPRESSOR AF32A-18 DISTANSE | Ĩ ₹ S | AS A FUNCTION OF | | ANGLE AND | NO DISTANC | La I | FROM SC | SOURCE | | | | | | | |) OMEGA | A 8.2 77-733-001 | DECA 8.2 TEST 77-733-001 | |
|---|---------------|------------------|--------------|-----------|---------------------|--|---------|-----------------------|--------------|--------------|--|----------------|------------------------|--------|------|-------------------------------------|-------------------------|-----------------------------|--------------|
| DISTANSE | CE/SU OISE | BJECT & | ığ. | | OPERAT III SI | ERATIONS IDLE POWER 48% F SINGLE ENGINE GROUND RUNUP (SU | TER 482 | X RPH (SUPPRESSED) | SSED) | Ĭ . | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | PRESS HUMID | = 59 =29.92 = 70 | F X HG | | AIRCRA OPERATI PROFIL PAGE | 11 110N 179 61 | CODE CODE RSIM | 733 00113 |
| (FEET) | - | 0 10 20 | 92 | 36 | 3 | 50 | 6.9 | 20 | ANGLE 8) | 22 | EGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| | 75.1 | 61.9 | 83.6 | 82.2 | 81.3 | 78.6 | 76.9 | 74.6 | 70.8 | 71.5 | 72.4 | 72.0 | 73.9 | 75.1 | 76.7 | 75.9 | 75.4 | 75.7 | 74.1 |
| 345 | 72.7 | 79.5 | 81.2 73.8 | 77.4 | 76.5 | 73.9 | 74.6 | 71.7 | 68.6 66.3 | 69.3 67.0 | 78.2 | 69. 7 67. 3 | 71.6 | 70.5 | 74.4 | 73.5 | 75.1 | 73.4 | 71.9 |
| | 67. E | 74.5 | 76.3 | 7 4. 8 | 74.0 | 71.4 | 69.7 | 66.9 | 64.4 | 64.8 | 65.5 | 64.8 | 66.8 | 66.3 | 69.7 | 68.7 | 68.3 | 68.8 | 67.4 |
| | 65.4 | 71.9 | 73.7 | 72.2 | 71.4 | 68.8 | 67.1 | 64.4 | 61.6 | 62.4 | 63.1 | 62,3 | 64.2 | 65.6 | 67.2 | 66.2 | 65.8 | 66.4 | 65.1 |
| | 59.9 | 65.4 | 68.2 | 66.6 | 65.8 | 63.4 | 61.6 | 59.5 | 56.5 | 57.5 | 28.0 | 56.8 56.8 | 58.9 | 60.3 | 62.0 | 6 | 9.09 | 61.4 | 60.2 |
| | | | | | | | | | | | | | | | | | | | |
| 1000 | 57.1 | 63.5 | 65,3 | 63.7 | 62.8 | 60.4 | 56.7 | 50.4 | 53,9 | 54.0 | 55° | 53.00 0.00 | 56.2 | 57.6 | 59.2 | | 6 0 6 | 56.5 | 57.7 |
| | 51.0 | 57.4 | 59.1 | 57.4 | 56.4 | 54.2 | 52.5 | 50.6 | 71.1 48.2 | 7.54 | 5 C • 7 | 47.7 | 54.2 | 51.7 | 53.2 | 55.0 51.9 | | 53.3 | 52.2 |
| | 47.8 | 54.1 | 55.8 | 54.0 | 53.0 | 50.8 | 49.1 | 47.5 | 45.2 | 46.5 | 46.7 | 4.0.4 | 47.1 | 48.6 | 50.0 | 48.7 | | 50.4 | 4.64 |
| | 44.3 | 50.7 | 52.3 | 50.4 | 49.3 | 47.2 | 45.6 | 44.2 | 41.9 | 43.4 | 43.5 | 40.8 | 43.8 | 45.2 | 46.5 | 45.3 | _ | 47.3 | 46.2 |
| | *0• | 47.0 | 48.6 | 46.5 | 45.5 | 43.4 | 41.9 | 40.7 | 38.5 | 39.9 | 40.0 | 37.2 | 40.3 | 41.6 | 45.6 | 41.8 | 9 0) | *** | 45.9 |
| 0004 | 36.2 | 45.5 | , | 42.0 | 4; 1; | 38.9 | 37.4 | 36.4 | 34.4 | 35.9 | 35.9 | 32.9 | 36.1 | 37.4 | 38.1 | 37.6 | - 1 . | 39.8 | 38.9 |
| | 26.2 | 37.6 | 34.5 | 25.0 | 7 4 7 | 28.0 | 27.0 | 36.6 | 36. C | 31.0 | 31.4 | 22.6 | 36.7 | 26.20 | 2000 | 33.0 | * 4 | 33.62 | 000 |
| 9000 | 21.8 | 27.3 | 29.6 | 27.1 | 26.0 | 23.9 | 22.3 | 21.8 | 20.8 | 22.8 | 22.3 | 19.0 | 25.2 | 24.0 | 24.0 | 23.5 | | 25.9 | 25.2 |
| | | 9. | 7 76 | | | | | 4 | 9 | 4 | 17.7 | 4 | | 9 | 4 | | | | |
| 12500 | 12.6 | 16.8 | 1 9 6 | 17.0 | | 4 % F | 12.4 | 12,4 | 11.2 | | 2 2 2 | 9 | 12.9 | 15.3 | 15.5 | 13.7 | 9.5 | 16.4 | 15.4 |
| | | 11.6 | 14.0 | | 10.4 | 9 | 7.6 | 7:1 | 9 | | 9.6 | 6 | 8.2 | 10.8 | 11.4 | 9.0 | 6 | 11.5 | 10.5 |
| 20000 | 3.5 | 6.3 | 9. | | 5.1 | 3.8 | 2.6 | 80 | 9 | 3.8 | 3.5 | , m | 3.6 | 6.3 | 7.2 | 3.5 | 3.8 | 6.2 | 5.1 |
| | | 1.1 | 2.6 | 1.3 | - | | | | | | | | | 2.0 | 3.1 | | | €. | |

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|----------------------|------------|----------|-------|--------|----------|-----|-----|------------|------------|-------|----------------------------------|--------------|-----|------|------------|------------------------|------|----------------|----------|--------|---|---------------------------|-----------------------------|-----------|-----|
| | 018 | DISTANCE | CE = | 52 | O FEET | E E | | | | | | | | | | | | | | | |) OMEGI) TEST | OMEGA 6.2 TEST 77-733-80 | 77-73-801 | 6 |
| NOISE SOURCE/SUBJECT | URCE | 32 | BJECT | | ą | | Õ | OPERATION! | NON | 997 | | | | AE . | TEOR | METEOROL OGY 1 | i | | | į | | 2 4 6 | AIRCRAFT | - i | S S |
| AF 32A-18 | A-18 | | | } | § | | | 3 N R | NGLE | ENG I | SINGLE ENGINE GROUND RUNUP (SUPP | (SUPPRESSED) | ÉO | | BAR BAR B | BAR PRESS REL HUMIO | SS E | =29.92 = 70 | N N O | 9 | | PROFILE VERSION 28 NOV 79 | FILE | 5 A 6. | Z Š |
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| | 733 00120 A | 180 | 7.0 | 17 | 70 | 69 | 2 4 | 5 | 25 | 57< | 57< | 2 6< | 26< | 26 < | 26 | 55 | S S | 22 | 20 | 52 | 28 | 52 | 25 | 53 | 14 | 11 |
| ON: | ODE ODE Sion | 170 | 73 | 7 | 704 | 69 | 2 4 | . eo | 58< | 58< | 584 | 58 | 58 | 56 | 58< | 584 | 58 | 9 | 20 | 5 | 4 | 25 | 58 | 5 5 | 64 | 78 |
| ATI 22 733 | O O M | 160 | 72 | 69 | 68 < | 29 | s c | 9 | 59 | 24 | 55< | 55< | 26 < | 2 6< | 57< | 58 < | 58 | 23 | 9 | 19 | 99 | 19 | 29 | 61 | 25 | 78 |
| DENTIFICATION OMEGA 8.2 TEST 77-733-0 RUN 62 | RCRA ERAT OFIL NOV GE | 150 | 4. | | 70 < | 69 | ر ب ب | | 62 | 58 | 52 | 52< | 26< | 5 7< | >25 | 58< | 58 | 20 | 9 | 63 | 68 | 6 4 | 63 | 63 | 24 | 80 |
| 2010 - C | PRPPH | 3 | 73 | 1.7 | 69 | 17 | 2 2 | 49 | 62 | 60 | 2 6 | 26< | 57< | >25 | 57< | >15 | 25 | 28 | 28 | 19 | 65 | 29 | 90 | 61 | 25 | 62 |
| | g I | 30 1 | 73 | 72 | ×0× | 8 9 (| 0 0 | . 99 | 29 | 59 | 52 | 53< | 53< | 53< | 544 | 244 | 55< | 554 | 55. | > 26 | 26 | 53 | 52 | 54 | 4 | 62 |
| | 59 F 92 I 70 % 08 | 20 1 | | 72 | | | | | | | | v | v | v | v | 27< | | | | v | | | | | | 81 |
| | 50 | 110 1 | | m | σ. | ÷. | * * | . ~ | | 9 | | | | | | | | | | | | | | | | 82 |
| | METEOROLOGY: TEMP BAR PRESS: REL HUMID = | | 3 | | | | 200 | | | | | | | | | | | | | v | | | | | | - |
| | ETEOR TEMP BAR REL ELTA | GREES) | 2 | 7 > 0.7 | | | | | | | | | | | | | | | | | | | | \$ \$ | | ec |
| | |) () () | | ~ | | | | | | | | | | U | v | v | U | v | v | v | v | | | * | m | _ |
| | SSED) | ANGLE | ~ | | ۱ ۵۰ | ٠, | - ~ | . به | | | | 57 | | | v | v | v | v | v | 9 | | - | * | 43 | 3 | 4 |
| | RUNUP SUPPRESSED) | 3.5 | | 69 | | | | | | 9 | w | Ŋ | w | w | ŝ | ß | w | w | RV I | w. | 'n | w | r. | ī | | 7.8 |
| 08) | SINE INE IP (SI | 9 | 73 | 72 | 70 | 97 | 2 % | 9 | • | ø | ø | ဖ | Ð | ī | w | ľ | S. | W. | ויי | | 52 | 64 | 20 | 64 | £43 | œ |
| ~ ¦ | TION: RPM ENGINE GLE ENGINE UND RUNUP (S | 5.0 | 75 | 75 | 73 | 73 | 7 2 | 6.6 | 7. | 68 | 9 | 58 | 27 | 26 | 55 | 53 | 25 | 21. | 20.0 | 6 | 4 | 43 | £ | 41 | 354 | 80 |
| E LEVEL | OPERATIONS 75% RPM SINGLE E GROUND R | 0.4 | 73 | 23 | 70 | * ? | 7 2 | 69 | 70 | 69 | 62 | 62 | 24 | 52 | 22 | 209 | 65 | 52 | 53 | 7 5 5 | 52 | 20 | 25 | 64 | 4 | 82 |
| ESSURE | 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 30 | 72 | 7.7 | 9 i | , t | 1 2 | 7 | 71 | 7.7 | 65 | 65 | 61 | 9 | 53 | 28 | 9 | 61 | 20 10 | , O | 29 | 26 | 2 | 22 | 25 | 82 |
| PEE | | 20 | 72 | 72 | 70 | * • | 12 | 9 | | 20 | 68 | 62 | 62 | 28 | 2 3 | 20 | S S | Ω Ω | 20 | 20 | 23 | 2 3 | 22 | 52 | 48 | 82 |
| SOUND BAND 250 | SSOR | 207 | 11 | 77 | 5 (9 | 72 | 7 t | 99 | Z | 29 | 65 | 63 | 9 | 58 | 23 | 20 | 5 | 5 | 9 | 5 | † | 28 | 23 | 9 | 53 | 81 |
| NORMALIZED 1/3 OCTAVE DISTANCE = | SUBJECT & | 0 | 73 | 73 | 2 | <u>.</u> . | 2 2 | 73 | 7.1 | 68 | 65 | †9 | † | 62 | 63 | 61 | 49 | 63 | 1 9 | 19 | 9 | 62 | 99 | 62 | 26 | 82 |
| NORMALIZ 1/3 OCTA DISTANCE | | TER Z) | | | | | | | | | | | | | | | | | | | | | | | | _ |
| LEI | ISE SOURCE T-38 NOISE AF32A-18 | BAND CENTER FREQ (HZ) | 20 | 63 | 9 | 100 | 16.0 | 200 | 250 | 315 | 3 O 4 | 500 | 630 | 90 C | 1000 | 1250 | 1600 | 2002 | 2500 | 3150 | 0005 | 500 t | 6300 | 8 J J D | 0000 | OVERALL |
| TABLE | NOISE T-3 | | | | | | | | | | | | | | • • | -1 | - -1 | | . • | | • | -, | _ | ~ | 7 | 6 |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| TABLE | PERCE1 | PERCEIVED NOISE LEVE | ISE LE | _ | (PN08) | | | | | | | | | | |) IDENTI | IDENTIFICATIONS OMEGA 8.2 | IONE | |
|--|--------|------------------------|-------------|------------|--|------|--|-------------------------|---|---------------------|--|---------------------|------------|---|----------|---|--|---------------------------|---------------------|
| | AS A F | A FUNCTION OF | N OF A | ANGLE A | AND DISTANCE | | FROM SOURCE | SOURCE | | | | | | | |) TEST | 77-733-881 | 3-001 | |
| NOISE SOURCE/SUBJECTS T-36 NOISE SUPPRE AF32A-18 | NOISE | JBJECT : SUPPRESSOR | SSOR | | OPERATIONS 75% RP SINGLE GROUND | ¥ | RATION: 75% RPM ENGINE R SINGLE ENGINE GROUND RUNUP (SL | E RUNUP (SUPPRESSED) | SSED) | 1 HE | METEOROLOGY TEMP BAR PRES REL HUMI DELTA N = | PRESS #2 HUMID # | . 8 | F NI NG | | AIRCRAF OPERATI PROFILE 28 NOV PAGE 0 | AIRCRATT CODE 7 OPERATION CODE 0 PROFILE VERSION 26 NOV 79 PAGE D2 | CODE 7 CODE 0 RSION | 733 00120 N A |
| OISTANCE | | 107 | 20 | 9 6 | 3 | 50 | 09 | 0,2 | ANGLE 80 | (OEGREES) 90 100 | 100 | 110 | 120 | 138 | 140 | 150 | 160 | 170 | 188 |
| 290 | 93.3 | 91.4 | 86.8 | ė | 88.4 | 85.2 | 86.0 | 84.6 | 85.4 | | 87.2 | 90.3 | | 84.7 | | | 90.3 | 89.2 | 1.59 |
| 1 250 | 91.0 | 89.0 | 86.4 | å | 86.1 | 85.9 | 83.6 | 82.3 | 83.1 | | 84.9 | 88.0 | 84.9 | 82.4 | | 6 | | 86.8 | 83.4 |
| 315 | 88.6 | 86.6 | 84.0 | 'n | 8 3, 8 | 90.0 | 81.2 | 79.9 | 80.8 | | 82.6 | 85.6 | | 79.9 | | | | 84.4 | 80.9 |
| 0 i | 86.0 | 84.1 | 81.6 | 'n. | 81.5 | 78.3 | 78.8 | 77.5 | 78.5 | | 80.0 | 83.1 | _ | 4.22 | 82.9 | | 82.8 | 81.8 | 78.4 |
| 200 | 4.00 | 910 | 19.0 | å, | 79.0 | 75.8 | 76.2 | 5 6 6 | , 6. 1. | | 77.9 | 80.7 | 77.5 | 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · | | | 40.4 | 2.67 | 75.7 |
| | 77.5 | 75.6 | 73.8 | 75.0 | 0 m | 78.7 | 70.0 | 7.59 | σ · · · · · · · · · · · · · · · · · · · | 58.0 | * 6 | 7.5.7 | 71.9 | 69.2 | | 76.2 | 76.2 | 7007 | 6.69 |
| } | : | | | , | 3 | | | | : | | | • | | | • | | | : | |
| 1000 | 74.3 | 72.4 | 71.0 | | 71.1 | 66.0 | 9.29 | 66.3 | 68.1 | 6.49 | 70.2 | 71.5 | 6 | 66.1 | 6 | | 70.8 | 79.0 | 66.6 |
| 1250 | 70.8 | 68.9 | 68.0 | å | 68.0 | 64.8 | 64.1 | 63.1 | | 61.6 | 67.0 | 68.2 | ĸ | 62.7 | m | ** | | 66.4 | 63.0 |
| 1600 | 67.0 | 65.6 | 64.9 | 65.4 | 2 • 4 9 | 61.3 | 60.5 | 59.4 | 61,3 | 57.9 | 63,5 | 64.7 | | 58.8 | - | | | 62.3 | 59.3 |
| 5000 | 63.2 | 61.9 | 61.5 | ä | 61.1 | 57.2 | 56.5 | 55.3 | | 53.6 | 59.5 | 60.0 | | 54.6 | 'n | | | 57.9 | 52.5 |
| 2500 | 59.1 | 57.7 | 57.1 | | 56.9 | 55.5 | 52.0 | 50.4 | | 48.5 | 55.0 | 56.5 | | 49.6 | 4 | | | 53.4 | 50.0 |
| 3150 | 54.1 | 52.9 | 52.0 | | 52.2 | 4e.8 | 46.7 | 45.1 | | 45.7 | 49.6 | 51.5 | 47.7 | 43.5 | 4.2.4 | 48.5 | | 47.6 | 44.2 |
| 0004 | 49.4 | 47.0 | 46.3 | 2 | 46.7 | 40.3 | 40.7 | 39,1 | | 35.7 | 43.5 | 45.6 | | 36.3 | 9 | | • | 41.4 | 37.8 |
| 2000 | 41.7 | 40.3 | 39.6 | 4 | 39,7 | 32.4 | 33.2 | 31.5 | | 27.0 | 36.1 | 38.2 | ص | 26.1 | 80 | | 9 | 34.5 | 30.4 |
| 6380 | 34.8 | 32.8 | 32.4 | ň | 31.2 | 21.2 | 23.1 | 20.9 | | 13.2 | 26.9 | 28.6 | - | 12.6 | ~ | | 80 | 26.0 | 20.4 |
| 0008 | 27.7 | 24.0 | 56.0 | ŝ | 21.5 | 10.6 | 13.0 | 10.6 | | | 16.4 | 15.8 | N | | 80 | | . | 15.3 | 9.9 |
| | 18.6 | 4.4. | 17.7 | 16.6 | • | | 8 | , | | | 7 | 0 | | | | | | 4 | |
| 12500 | 9 | 5.7 | 7.8 | | • | | • | • | | | : | | • | | | | | • | |
| 16000 | | : | : | 3 | | | : | | | | | | | | | | | | |
| 20000 | | | | | | | | | | | | | | | | | | | |
| 25000 | | | | | | | | | | | | | | | | | | | |
| J | | | | | | | | | | | | | | | | | | | |

| | | TONE-COPRECTED, PERCE AS A FUNCTION OF ANGL | ED, PE | > ₩ | ED NOISE LEV And distance | E LEVEL | LEVEL (PNDB) Ince From Sou | IDB) Source | | | | | | | |) IDENTI) OMEGA) TEST | IDENTIFICATIONS OMEGA 8.2 TEST 77-733-001 | 10N: | |
|---|--------------|--|--------|---------------|--|---|-------------------------------|-------------------------|--------------|--------------|--------------------------------|--------------------------------|------------------------|--------------|----------------|---------------------------------------|---|--------------|---------------------|
| NOISE SO | NOIS | SUBJECT: | SSOR | | OPERATIONS 75% RP SINGLE GROUND | ATION: 75% RPH SINGLE 6 GROUND R | I EN | E RUNUP (SUPPRESSED) | SSEO) | | TEOROI TEN BAR TA REL | LOGY 8 PRESS = 2 HUMID = | = 59 =29.92 = 70 | Z Z Z | | AIRCRAI OPERAT PROFIL 28 NOV | RUN BZ AIRCRAFT CODE OPERATION CODE PROFILE VERSION 28 NOV 79 | | 733 00120 - A |
| DISTANCE (FEET) | 9 | 3 | 20 | 30 | 3 | 50 | 9 | 0, | ANGLE 80 | | (DEGREES) 90 130 | 110 | 120 | 130 | 7,0 | 150 | 160 | 170 | 180 |
| 200 | 94.7 | 93.0 | 90.2 | 92.2 | 91.0 | 85.2 | 87.1 | 85.4 | 86.2 | 83.6 | 88.8 | 93.0 | | 85.7 | 9 | | | | 86.8 |
| 315 | 92.3 | 96.6 | 85.5 | 89.8 | 88°7 | 80.6 | 84.7 | 83.0 | 83.9 81.6 | 81.3 | 86.5 4.5 2.5 | 90.7 | 85.1 83.7 | 63.3 80.9 | 89. Z 86. 7 | 91.7 | 69.4 | | 84.4 |
| 4.00 | 87.3 | 85.7 | 83.0 | 84.9 | 8 4. 1 | 78.3 | 79.8 | 78.2 | 79,3 | 76.6 | 81.9 | 85.8 | | 78.4 | - | | | | 79.4 |
| 200 | 84.7 | 83.0 | 83.4 | 82.3 | 81.7 | 75.8 | 77.3 | 75.7 | 6.97 | 74.2 | 79.5 | 83,1 | | 75.8 | 3 | σ. | | | 76.7 |
| 9 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C | 81.9 78.8 | 80.2 | 75.2 | 79.5 | 79.1 76.5 | 73.3 | 74.7 | 73.0 70.1 | 74.2 | 71.5 68.6 | 74.5 | 83. 3 | 76.0 73.1 | 73.0 | 78.6 | | 78.8 | 78.6 75.6 | 73.9 |
| | , | ; | • | | ; | • | | ; | • | | į | i | ; | | | | | | , |
| | 72.4 | 7.5 | * u | 7 30 7 | 7 5. 6 | 9 4 4 | 55.7 | 63.8 | 65.7 | 52.0 | 68.5 | 70.8 | 1007 | | 6.4.5 6.8.5 | 7.50 | 6.2.5 6.8.6 | 68.7 58.7 | 54.1 |
| 1600 | 68.4 | 67.2 | 66,3 | | 67.4 | 61.3 | 61.6 | 60.2 | 62.1 | 58.5 | 65,0 | 4 • 29 | | | | ص ، | | | 60.3 |
| 2000 | 64.5 | 63.5 | 65.9 | 63 | 63,7 | 57.2 | 57.6 | 56.1 | 58.0 | 24.5 | 61.1 | 63.6 | | 55.6 | | | | | 56.2 |
| 2500 | 60.4 | 59.3 | 58.6 | 58. | 59.6 | 55.5 | 53.1 | 51.2 | 53,3 | 1.64 | 9 • 9 9 | 59.5 | | | | • | | | 51.0 |
| 3150 | 55.4 | 54.5 | 53.4 | 54. | | 46.8 | 47.8 | 45.9 | 47.9 | 43.3 | 51.2 | 24.5 | 49.9 | 44.5 | ~ | ~ | | | 45.3 |
| 0007 | 40.4 | 48.3 | 47.4 | 48 | 4 8° B | 40.3 | 41.6 | 39.7 | 40.9 | 36.2 | 44.8 | 47.7 | 42.8 | 37.1 | 9 | σ | | | 38.7 |
| 2000 | 42.5 | 41.3 | 40.4 | 44 | 41,3 | 32.4 | 33.9 | 32.0 | 32.8 | 27.4 | 37.0 | 39.8 | 35.4 | 56.6 | و و | | | | 31.0 |
| | 55.3 | 33.5 | 33.0 | ÷ . | 32,0 | 21.5 | 23.6 | 21.2 | 21.6 | 13.4 | 27.5 | 7 .67 | 9.42 | 12.9 | 7.47 | ۰ م | | 26.9 | 20.02 |
| ; | | , | | 5 | | | 4 | • | • | | | | | | | • | | | • |
| 10900 | 18.6 | 14.9 | 17.7 | 16.6 | 9.1 | | 6.8 | 6 | 3.0 | | 7.4 | 6 .2 | £.4 | | | | | 4.6 | |
| (12500 | 9.5 | 2.1 | 7.8 | 8° 3 | | | 9 | | | | | | | | | | | | |
| 16000 | 4. | | | 7 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | 1 | | | | | | | | | | | | | | | | | |

| ⋖ | BULL TANK | | | | | | | | | | | | | |) OMEGA | A 8.2 | OMEGA 8.2 | |
|---|-----------|-------|--------------------|--------------------------|--------------|------------------------------|---|-------------|-------|--|--------------|---------------------------|---------------|---------------|--|--|-------------------------------|-------------------|
| | | | ANGLE AN | AND DISTANCE FROM SOURCE | STANCE | FROM S | OURCE | | | | | | | | TEST | TEST 77-733-001 | 3-001 | |
| E SOURCE/SU T-38 NOISE AF32A-18 | 2 | SSOR | | OPERAT 75 SI GR | - ā wo | ENGINE ENGINE RUNUP (S | E RUNUP (SUPPRESSED) | P ESSED) | 2000 | METEOROLOGY TEMP BAR PRE REL HUN DELTA N = | SS | # 59.92 #29.92 # 70 | F IN HG | | AIRCRAF DPROFILE PROFILE PAGE F | AIRCRAFT (OPERATION OPERATION (PROFILE VE) | CODE D N CODE D VERSION | 733 00120 A |
| OISTANCE (FEET) 0 | 10 | 10 20 | 88 | 3 | 50 | 99 | 0,2 | ANGLE | 1 ~ 6 | DEGREES) | 110 | 120 | 130 | 1,50 | 150 | 160 | 170 | 180 |
| 77.8 | | 74.2 | 7.5 | 74.0 | 70.7 | 70.2 | 69.7 | 71.4 | 68.2 | 72.8 | 74.6 | 72.2 | 69.1 | 74.1 | 76.1 | 74.47 | 73.1 | 70.8 |
| 75.5 | 73.5 | 72.1 | 73. | 71.9 | 68.6 | 68.1 | 9.29 | | 56.1 | 7007 | 72.4 | 70.1 | 6.99 | 71.8 | 73.8 | - | 70.8 | 67.8 |
| 73.2 | | 69.9 | 71. | å | 9099 | 62.9 | 65.4 | 67.3 | 64.0 | 68.6 | 70.2 | 68.0 | 64.7 | 69.3 | 71.3 | و | 68.5 | 65.5 |
| 70.8 | | 67.8 | 99 | × . | 64.5 | 63.7 | 63.2 | 65.2 | 61.9 | 99 | 67.9 | 65.8 | 62.4 | 66.8 | 68.7 | . | 66.1 | 63.1 |
| \$ 00 00 00 00 00 00 00 00 00 00 00 00 00 | | 60° | 0 0 1 1 1 | \$ 0 6 4 6 4 | 50.00 | 59.0 | 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 50.1 | 59.6 | 64.2 | 65. 64. t | 6.5°5 | 50.00 57.5 | 54.5 | 66.0 64.2 | 54.5 | 54.0 | 58.2 |
| 63.2 | 61.6 | 60.6 | 61. | | 57.5 | 56.8 | 56.6 | 56.3 | 54.8 | 59.5 | 60.5 | 58.5 | 54.9 | 58.7 | 60.3 | | 58.4 | 55.6 |
| 60.5 | 58.9 | 58.3 | _ | 58.1 | 55.0 | 54.3 | 53.5 | 55.8 | 52.2 | 56.9 | 57.8 | 55.9 | 52.2 | 55.8 | 57.2 | | 55.6 | 53.0 |
| 57.7 | | 55.7 | 56.4 | ķ | 52.2 | 51.5 | 50.7 | 52.9 | 4064 | 54.5 | 55.0 | 53.0 | 49.4 | 52.7 | 53.9 | | 52.7 | 50.5 |
| 54.7 | | 52.9 | _ | 52.5 | 49.2 | 48.7 | 47.9 | 49.7 | 46.5 | 51.2 | 51.9 | 50.0 | 46. | 49.5 | 50.5 | | 49.8 | 47.3 |
| 51.7 | | 50.0 | _ | ð | 46.1 | 45.7 | 44.9 | 46.4 | 43.3 | 48.2 | 40.7 | 46.9 | 43.2 | * 6. 2 | 47.0 | m | 46.7 | *** |
| 48.5 | | 46.7 | _ | ؤ | 45.6 | 45.4 | 41.6 | 42.7 | 39.9 | 44.6 | 45.2 | 43.5 | 39.8 | 45.7 | 43.3 | • | 43.5 | 41.1 |
| | | 43.1 | _ | ŝ | 38.8 | 38.7 | 38.1 | 38.6 | 36.2 | 40.8 | 47.4 | 39.9 | 36.2 | 39.1 | 39.5 | N. | 40.0 | 37.7 |
| 41. | | 39.1 | • | . | 34.7 | 90 | 34.2 | 34. | 32.5 | 36.6 | 37.2 | 36.0 | 32.3 | 35.2 | 35.5 | m . | 36.3 | 34.0 |
| 7.00 | | , | _ | , c | 2000 0000 | 200 | 3 6 | 4.67 | 6.72 | 32.0 | 52. | 51.6 | 9.02 | 31.4 | 31.5 | - u | 25.5 | 200 |
| 28.4 | | 26.4 | | | 22.2 | 20.0 | 21.6 | 2 | 400 | 24.5 | 24.6 | 24.4 | 40.4 | 20.2 | 20.4 | ۸ - | | 24.1 |
| | | 5 | _ | • | ; | ; | | | • | | | ; | | | | | • | |
| 24.6 | | 22.6 | | 20.5 | 18.3 | 18.3 | 17.4 | 17.7 | 15.6 | 19.7 | | 19.1 | 15.0 | 17.8 | 17.7 | 17.4 | 19.0 | 17.0 |
| 19.4 | | 18.5 | | 16.1 | 14.4 | 14.1 | 13.0 | | 11.5 | 15.6 | 14.8 | 14.7 | 10.5 | 13.4 | 12.8 | 12.4 | 14.1 | 12.3 |
| 14.5 | | 14.1 | | ä | 10.3 | 9.6 | 9 | | 7.2 | 11.4 | | 10.2 | 5.3 | 9.1 | 7.7 | 7.1 | 6.9 | *. |
| 9.6 | 8.2 | 9.5 | 9,5 | 7:4 | 6. 2 | 5.4 | 3.7 | 6. 2 | 2.9 | 7.1 | | 5.8 | 1.5 | 3.2 | 2.7 | 1.8 | 3.6 | 2.3 |
| ** | | | | | | | | | | | | | | | | | | |

| NOISE SOURCE/SUBJECT: T-38 NOISE SUPPRESSOR AF32A-18 DISTANCE (FEET) 0 10 20 CFEET) 79.1 77.3 75.250 76.8 75.1 73.3 75.400 72.9 71.9 10.6 69.7 68.2 66.6 | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 38 38 77.0 72.0 72.0 70.0 70.0 70.0 70.0 | OPERATIONS SINGLE SINGLE GROUND 40 76.6 78.7 74.5 68.6 72.4 66.6 | | ENGINE ENGINE RUNUP (S | RUNUP | | Ŧ - ^ | METEOROLOGY 8 | | | | | A PIRC | RUN 02 AIRCRAFT | | ; |
|--|---|--|--|--|-------------|------------------------------|--------------|-------------|----------|------------------------|-------|------------------------|----------|-------|--------------------------|--|---------------------------|-----------------|
| C FEET) C C C C C C C C C C C C C C C C C C | 1 | 26 75.6 73.5 71.4 69.2 66.9 | 00.57 00.57 00.57 | 90400 | 50 | | (SUPPRESSED) | (OESSE | 6 | TEMP BAR 6 REL 1 | SOG | 29.92 29.92 1 70 | A N H HG | (3 | PROFIL 28 NOV PAGE | 10 N N N N N N N N N N N N N N N N N N N | CODE 7 CODE 0 RSION | 33 0120 A |
| | | 773.6 | 30ru0 | ⊕ 10 + 01 ⊕ | | 3.9 | 9.2 | ANGLE | | 10EGREES) | 110 | 120 | 134 | 140 | 150 | 160 | 170 | 180 |
| | | 73.5 71.6 69.2 66.9 | 0 ~ W N | 20 t 02 | 7 | M | 70.5 | 72.2 | 68.8 | 74.4 | 77.2 | 73.4 | 70.1 | 75.4 | σ | _ | 75.4 | 71.1 |
| | | 2 6 9 6 | - 15 0 | + N = | | 69.2 | 66.3 | 70.2 | 66.7 | 72.3 | 75.1 | 71.3 | 67.9 | 73.0 | 75.5 | | 73.1 | 68.8 |
| | | 66.9 | ~ | | 64.5 | . | 9.00 | | 6,0 | 68.9 | 70.5 | 67.4 67.4 | 63. W | 68.1 | . | | 68.3 | 64.2 |
| | | 64.6 | | • | | ه د | 61.7 | 63.9 | 60.3 | 65.8 | 68.3 | 64.7 | 69.0 | 65.5 | | _ | 65.9 | 61.7 |
| | | | • | 9 | | m | 59.3 | 61.5 | 57.9 | 63.4 | 65.8 | 62.2 | 56.4 | | | _ | 63.3 | 59.5 |
| 800 64.5 | | 62.2 | m | ~ | | σ. | 56.8 | 59.1 | 55.5 | 61.6 | 63.2 | 59.7 | 55.9 | 59.9 | • | | 9.09 | 56.6 |
| 1000 61.8 | | 8 | 1. | 60.7 | | 4 | 54.2 | 56.6 | 52.9 | 58.5 | 69.5 | 57.1 | 53.2 | 57.0 | 58.9 | 57.5 | 57.9 | 54.0 |
| | | _ | 58.0 | | 52.2 | | 51.5 | 53.7 | 50.1 | 55.7 | 57.6 | | 50.3 | 53.9 | | 54.4 | 55.0 | 51.2 |
| 56.1 | | m | ب | - | | • | 48.6 | 50.5 | 47.1 | 52.8 | 54.6 | 51.2 | 47.3 | 50.7 | ď | 51.1 | 52.0 | 48.3 |
| 53.0 | 51.8 | . | ત : | • | | •0 | 45.6 | 47.2 | 43.9 | 49.7 | 51.4 | 48.1 | 44.1 | 4.7.4 | _ | 47.8 | 69.0 | 42.4 |
| 49°8 | | ~ | -1 | ~ | | • | 45.4 | 43,5 | 46.5 | 46.2 | | £ 6.7 | 40.9 | 44. | _ | 44.3 | 45.8 | 45.2 |
| m | | | ٦ : | • | | • | 38.8 | 39.4 | 36.8 | 45.4 | 44.0 | 41.1 | 37.1 | 40.3 | e. | 40.7 | 42.3 | 38.8 |
| 42.2 | | ~ | • | 4 | | 9 | 34.8 | 34.7 | 32.7 | 37.6 | 39, 3 | 37.8 | 33.8 | 36.2 | <u></u> | 36.5 | 38.1 | 34.8 |
| 37.7 | | . | 2 | R | | 31.1 | 30.5 | 29.8 | 28.3 | 33.0 | 34.3 | 32.6 | 20.6 | 31.8 | m | 32.0 | 33.6 | 30.5 |
| 6300 33° L | _ | _ | m | ~ | _ | 26.4 | 25.8 | 24.9 | 23.7 | 28.0 | 29° t | 27.9 | 23.9 | 27.0 | | 27.2 | 28.7 | 25.9 |
| | | | .5 | • | ۸. | 22.5 | | 21.4 | 19.7 | 23.9 | 24.1 | 23.6 | 19.6 | 22.5 | | 22.4 | 24.0 | 21.6 |
| | | 22.6 | 2.9 | 28.5 | 18.3 | - | 17.4 | 17.7 | 15.6 | 19.7 | 19.2 | 19.1 | 15.0 | 17.8 | 17.7 | 17.4 | 19.0 | 17.0 |
| 12500 19.4 | | 18.5 | ~ | | 16.4 | × | 13.6 | 14. | 11.5 | 15.6 | 14.6 | 14.7 | 10.5 | 13.0 | 12.8 | | 14.1 | 12.3 |
| | | 14.1 | 4.2 | • | 10.3 | • | 8.4 | 10.2 | 7.2 | 11.4 | 10.5 | 10.2 | 5.9 | 9. | 7.7 | 7.1 | 6.9 | 7.4 |
| 20000 9.4 | 9.5 | 9.5 | w | | 6. 2 | 5.4 | 3.7 | 6. 2 | 2.9 | 7.1 | 6.3 | 5.8 | 1.5 | 3.1 | 2.7 | 1.8 | 3.6 | 2.3 |
| | | 4.6 | ~ | _ | 2.1 | 1.1 | | 2.1 | | 2.8 | 2.2 | 1.5 | | | | | | |

| OISTANCE = 250 (NOISE SOURCE/SUBJECT: | FEET | | | | |) TEST 77-733-001 |
|---|---|--|-------------------------|--------------------------------------|---------------------------------------|---|
| | | | | | | - NEG 1-1 |
| MRSONC ZH MFGZÞ | , | OPERATION: 75% RPM ENGINE RUNUP SINGLE ENGINE GROUND RUNUP (SUPPRE) | E RUNUP (SUPPRESSED) | ETEOROLOGY: TEMP BAR PRESS REL HUMID | = 59 F =29.92 IN HG = 70 X | ARCEAFT CODE 733 OPERATION CODE 0120 PROFILE VERSION A 28 NOV 79 |
| MRSONC ZH MFGZÞ | | PEPRIT | 1 | , | TARL | |
| MRSOMU ZH MFGZ> | • | | | | | |
| MRSONC ZH MFGZ> | • | • | • • | • | • • • • • • • • • • • • • • • • • • • | |
| MRSONC ZH MFGZ> | | • | • | • | . AT . | d. |
| MRSOMO ZH MFGZ> | •• | • • | ••• | • • | . A T | • |
| MRSONC ZH MFGZÞ | • • | • | • | • | A.T | |
| MRGMC ZH MFGZÞ | •• | •• | • • | • • | | ••• |
| M M M M M M M M M M M M M M M M M M M | • • | •• | •• | • • | •* | ••• |
| ти на опоки | | | | • | AT | d. |
| HZ QWOKW | | • | | • | | |
| | • | • | • | • | • | |
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| | • | • | • | A | | |
| | •• | • • | • • | • • | . AT | • • |
| | •• | • • | ••• | • • | | |
| E 120 (| • • | • | • | • | . AT | |
| 130 (| • • | • • | ••• | •• | AT F | • |
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| 150 (| • | | | • | AT | |
| 160 (| ••• | • • | • • | • • | • • • • • • • • • • • • • • • • • • • | • • |
| 170 (| | •• | •• | • • | | •• |
| 188 | | | | • • | AT | |
| | | • | | • | | |
| 0 | 10 2 | 20 30 | | 50 60 | 70 80 | 90 100 |

| TABLES | IZED TAVE CE = | SOUND BAND 250 | PR | ESSURE | LEVEL | (08) | | | | | | | | | | DENTIF | - | TION: 2 33-001 | |
|-----------------------|----------------------|----------------------|------------|-------------|------------|--------------------------|------------|------------|------------|------------------|---|--------------------------|---|--------------------|------------|--|---------------|------------------------------|-----------------|
| NOISE 1-38 AF32 | SUPPR | SOR | | OPER SIL | NSC R TION | POWER ENGINE RUNUP | | ESS | | | TEOROLOGY TEMP BAR PRESS REL HUNID | Y: S = 29. D = 0.0 | 7 2 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 9 H | | AIRCRAFT OPERATION PROFILE 1 28 NOV 79 PAGE C3 | 750 | CODE 73 CODE 06 ERSION | 33 8109 A |
| (FREQ (HZ) | 9 | 97 | 20 | ě | 0, | 5.0 | 99 | ANG. | H 2 | DEGREES 90 10 | (S) | 1 01 | 20 13 | 36 1 | 9 | 150 | 160 1 | 7.0 | 186 |
| 30 | 79 | 8 | | 1 | 8 | ¥ | 08 | 79 | % | 82 | _ | | | 2 | 2 | 2 | 82 | 79 | Z |
| | . ž | 8 6 | 1 PO | 9 | 8 6 | 60 (M. 16) | 8 2 | 82 | 95 | 8 6 | • ~ | | | _ | 2 2 | 8 2 | 8 1 29 | 8. | 5 |
| 99 | 80 | 52 | 19 | 79 | 79 | 92 | 28 | 9.2 | 79 | 79 | _ | | | | 2 | 28 | 78 | 28 | 78 |
| 100 | 77 | 29 | 16 | 11 | 22 | 14 | 76 | 28 | 22 | 73 | . | | | | 23 | 73 | 72 | 73 | 72 |
| 125 | 0 | 62 | 19 | 11 | 77 | 22 | 42 | 92 | 11 | 73 | ~ | | | | <u> </u> | * | 70 | 72 | 7.6 |
| 160 | 0 I | 2: | 92 | 42 | 47 | 7 | 7.1 | 72 | Z : | 7 | a 1 | | | | Z! | 9 | 9 ; | 69 | 0 (|
| | 22 | 22 | 21 | 1 K | 6 C | 2 2 | 7 7 7 0 | 7 6 |) C | 9 C | ۰. | | | | - u | 9 4 | † 6 | ? . | ۵ ج د د |
| 315 | . 69 | : 7 | 72 | 2 | 9 | 69 | 1 99 | 69 | . 99 | 99 | و. | | | | 19 | 29 | 19 | S S S | 22 |
| 004 | 69 | 72 | 92 | 70 | 29 | 29 | 65 | † 9 | 61 | 60 | ~ | | | | 9 | 29 | 20 | 554 | 25 |
| 200 | 99 | 69 | 73 | 70 | 19 | 99 | 49 | 63 | 9 | 25 | _ | | | | 25 | 28 | †9 | >96 | 53< |
| (630 | 29 | 99 | 70 | 29 | 99 | 63 | 61 | 61 | 22 | 2 | . | | | | 24 | 22 | 11 | 2 6 | 24 |
| 900 | 65 | 9 | 99 | 99 | 63 | 63 | 61 | 29 | 24 | 244 | 2 | | | | 26 | 52 | Z | 29 | 21 |
| 0001 | * | 9 ; | 9 | \$ | 63 | 1 9 | 61 | 57 | 534 | 544 | ، م | v | | | 55. | 52 | ۰ وع | ₩ (| 90 |
| 1550 | 1 ° 5 | 3 3 | 2 2 | 7 Q | 2 2 | ر د د | D 0 | 7 Y Y | 524 | 536 | ν τ ν τ | ממ מי מי | 200 | ייר אמה אניר | 0 0 | v c | 0 4 10 4 | <u>د</u> در | , c |
| 2006 | | 65 | 3 | 65 | 63 | 62 | 60 | 50 | 514 | 524 | | | | | | 9 | 49 | 62 | 60 |
| (2500 | 9 | 9 | 28 | 65 | 9 | 28 | 29 | 25 | 51< | 52< | . | | | | 28 | 9 | 62 | 59 | 25 |
| (3150 | | 63 | 25 | 6 4 | 9 | 58 | 57 | 53< | 5ú < | 52< | | | | | 9 | 61 | 63 | 9 | 21 |
| 0004 | 62 | 69 | 62 | 29 | 63 | 65 | 53 | 22 | 6 | 51 | _ | | | | 63 | 29 | 29 | 49 | 53 |
| 2005 | | 79 | 23 | 29 | 91 | 6 2 | 28 | ų Į | 25 | 24 | 61 | | | | 64 | 99 | 99 | 99 | 29 |
| (6300 | 9 | 6 1 | 22 | † | 28 | 25 | 55 | 20 | \$ | 50 | 52 | 55 5 | - | _ | 61 | 63 | 29 | 61 | 21 |
| • | 9 | 3 | 28 | 62 | 25 | 26 | 54 | 6 4 | \$ | 24 | 25 | ٠. | _ | _ _ | 9 7 | 61 | 61 | 29 | 22 |
| • | | 26 | 21 | 25 | 25 | 20 | 48 | ‡ | 1 | 1 | 1.7 | | | _ | 22 | 52 | 24 | 53 | 6 |
| (OVERALL | 6 | 88 | 88 | 88 | 29 | 87 | 87 | 87 | 87 | 87 | 96 | 86 8 | 9 | 28 | 87 | 86 | 87 | 96 | 29 |
|) | • | | | | Ĭ | | | | | | | | | | İ | | | | |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| TABLE! | PERCEI AS A F | PERCEIVED NOISE LEVE AS A FUNCTION OF ANG | ISE LE | ש כ | (PNDB) And Distance | • | FROM SC | SOURCE | | | | | | | | DENTINO OMEGA | IDENTIFICATIONS OMEGA 8.2 TEST 77-733-001 | 10Ns 3-801 | |
|---|--|--|---------------------------------------|---|--|----------------------|---------------------------------|-------------------------------|----------------------|---------------------------------------|--|------------------------------|----------------------------------|----------------------|---|---|---|-----------------------------|-----------------------------|
| NOISE SOURCE/SUBJECT: T-38 NOISE SUPPRE! AF32A-18 | RCE/SU NOISE -18 | SUPPRESSOR | SSOR | | OPERATIONS 94% RP SINGLE GROUND | 1 ¥ | PONER | RUNUP (SUPPRESSED) | SSE0) | Z 2000 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N | SS 4 | # 59.92 # 70 | T X X | | AIRCRAFT OPERATIO PROFILE 28 NOV 7 | AFT ATION ILE VE D3 | 2 1 | 733) 00109) |
| OISTANCE (FEET) | - | 10 | 26 | 30 | 3 | 50 60 | ì | 2 | ANGLE | (DEGREES) | (EES) 106 | 33 | 120 | 130 | 140 | 150 | 168 | 170 | 190 |
| 250 | 94.8 | 96.7 | 94.1 | 96.8 93.6 | 92.8 | 92.8 | 90.5 | 89.5 | 87.6 | 88.2 | 66.6 | 86.9 | 66.6 | 67.3 | | | K = K | 91.9 89.5 87.8 | 69.9) 67.5) 85.8) |
| 372 | 90°1 87°6 85°0 | 9 9 9 8 9 9 • 6 9 9 • 5 | 8 % 8 % 9 % 9 % | 91. 88.7 86.0 | 8 8 8 2 9 8 2 0 0 10 | 85.5 82.9 | 83.0 83.0 90.4 | 82.0 79.5 | 80.1 77.5 | 80.7 78.2 | 81.3 78.6 | 76.9 | 81.4 | 79.6 | 6.49 | | | 87. 61.6 | 82.4) 79.7) |
| | 82.2 79.2 | 84.0 | 82.5 79.9 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 80.2 77.2 | 80.1 77.1 | 77.7 | 76.8 | 74.8 72.1 | 75.4 | 75.8 | 75.5 | 75.8 72.8 | 76.8 | 78.3 | 77.0 | ~ • | 72.6 | |
| | 76.1 | | 77.2 | | 74.1 | 74.0 | 72.1 | | 69.4 66.2 | 669.7 | 70.1 | 69.8 66.6 62.7 | 69.7 66.6 62.7 | 78.5 67.3 63.4 | 72.0 | | | 72.2 68.7 65.1 | 74.1) 66.0) 64.0) |
| 1600 1 2000 1 2500 | 69.4 66.0 61.8 | 67.5 63.3 | 68.3 68.3 | 66.9 62.8 | 6 6 6 6 7 7 8 | 63.5 59.1 | 62.6 57.5 | | 56.6 53.8 | 58.7 53.9 | 56.7 | 56.2 | 200 | 59.0 | 55.6 | | | 56.5 | 59.5 |
| | 57.1 51.7 45.6 38.9 | | 59.5 54.1 54.2 1.3 1.0 | 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | () () () () () () () () () () () () () (| 54°4 48°8 41°9 | 52.6 46.8 39.4 32.6 | 54. 45. 38. 29. 8 | 48,1 41,6 33,0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 4 6 6 6 4 4 6 6 4 6 6 6 6 6 6 6 6 6 6 6 | 47.3 40.0 31.1 20.6 | 47. 40. 31.6 22. 4.6 | 46.1 32.8 22.6 | 2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 0 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 4 + 6 % 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 44.6 44.6 47.2 4.2 | 41.5 32.7 22.3 8.7 |
| 7 | 22 42 22 22 22 22 22 22 22 22 22 22 22 2 | 24.2 19.1 7.0 | 231 6 251 6 27.4 6 6 6 1 6 6 | : 266 | 12 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 10.0 | 200 200 200 200 200 | 4 O.A. | 6 | | | | , | | ! | | | 2. | |

| | | AS A FUNCTION OF | · . | ַ שַׁ | | INCE | 5 | SOURCE | ! | | | | | | | ONEGA) TEST | OMEGA 8.2 TEST 77-733-881 | 13-001 | |
|---|---|------------------------------|--|--------------------------------------|---|--------------------------------------|--------------------------------------|--|--------------------------------------|---|--|--------------------------------------|--------------------------------------|--|--|--|--|------------------------------|--------------------------------------|
| NOISE SC T-30 T-30 AF30 | 1 2 2 7 | E/SUBJECT: ISE SUPPRE | i | | OPERATIONS 94x RP SINGLE GROUND | | F POWER ENGINE RUNUP C | RUNUP | ESSE D) | Ī Ö | HETEOROLOGYS TEMP BAR PRES REL HUHI | · voe | # 59 #29.92 # 70 | 71 X X X X X X X X X X X X X X X X X X X | | PROPERCY PROFERCY PROFE PAGE | B3 RAFT ATIO LLE OV 7 | CODE CODE ERSION | 733 6C109 |
| DISTANCE (FEET) | - | 70 | 20 | 98 | 9 | 50 | 3 | 2 | ANGLE | . (DEGREES 90 100 | 26.ES) | 110 | 120 | 130 | 146 | 150 | 160 | 176 | 180 |
| M + M N N | 999999999999999999999999999999999999999 | | 90000000000000000000000000000000000000 | | 00000000000000000000000000000000000000 | 94.6 | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 86.8 86.8 7 7 8.3 7 8.3 | 000 000 000 000 000 000 000 000 000 00 | | 89.9 87.5 86.9 | 99.5 95.0 95.3 90.7 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 6699 643 643 643 643 643 643 643 643 643 643 | 900 900 900 900 900 900 900 900 900 900 | 90 00 00 00 00 00 00 00 00 00 00 00 00 0 | 93.1 98.7 85.6 62.6 | 94.2 88.6 86.3 83.7 |
| 90 | 83.3 80.4 | 85.8 83.1 | 83.6 81.1 | 83.9 81.0 | 88.2 77.2 | 81.9 78.9 | 75.8 | 76.6 | 73.3 | 76.6 | 77.4 | 77.0 | 7.7. | 77.5 | 78.3 | 81.1 78.1 | 83.0 | 79.9 | 78.2 |
| 18 00 12 50 16 00 29 06 25 00 | 77.2 73.8 70.5 67.1 | 79.9 76.4 72.9 69.5 | 78.4 75.6 72.7 69.5 65.4 | 77.8 74.4 71.8 67.6 63.5 | 74.1 74.0 67.6 69.2 | 75.8 72.4 68.7 65.3 60.9 | 72.1 69.0 65.5 62.0 57.5 | 71 66 66 66 66 66 76 76 76 76 76 76 76 76 | 70.6 67.4 68.4 59.0 59.0 | 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 71.7 68.6 64.7 55.2 | 71.3 68.1 64.2 59.7 | 71.1 67.9 64.0 59.6 54.3 | 71. 68.1 64.2 59.8 | 72.0 68.5 64.5 60.3 | 74.8 71.2 67.2 62.5 57.3 | 76.9 73.6 70.4 67.0 | 73.5 69.9 66.3 62.3 | 72.4 69.3 65.3 60.6 55.6 |
| 31 4 4 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | | 60.7 55.0 40.9 86.9 | 58.9 53.6 47.0 34.0 | 8 4 4 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 56.2 543.0 35.9 | 52.6 46.8 39.4 32.6 24.2 | 54. 3.8. 2.9. 2.0. 2.0. | 49.4 48.4 23.4 12.9 | 20°3 20°0 20°0 30°0 9°3 | 26.00 26.00 26.00 26.00 | 48.8 41.2 32.0 21.4 10.8 | 48.7 41.6 32.5 22.6 9.9 | 23.33.33.33.33.33.33.33.33.33.33.33.33.3 | 24 50 0 24 50 0 24 50 0 30 10 0 10 0 | 51.6 44.9 35.1 25.3 | 59.2 53.7 47.7 41.7 | 52.8 45.5 37.0 14.4 | 50.00 33.05 22.05 8.9 |
| 108 18 12500 16000 2500 25000 | 2.4.2.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2 | 27.0 19.1 7.0 | 31.6 25.4 17.1 8.8 | 27.6 | 23.5 13.7 4.0 | 20.9 | 16.8 2.5 1. | 13.9 | 6 | | 3. 1. | m • | | | | | 22°2 9°8 9°8 | 1.2 | |

| , | AS A P | A FUNCTION | פ בא | - 141 | ND LEVEL AND DIST | (08A) | FROM SC | SOURCE | | | | | | | | ONEGA ONEGA OTEST | IDENTIFICATION: OMEGA 8.2 TEST 77-733-0 | IFICATIONS A 8.2 77-733-001 | |
|--|--|------------|------|--------------|---|---|--------------------------|-----------------------|---|---------------------|--|----------------|------------------------|--------------|------|---------------------------------------|---|-----------------------------------|-------------------|
| NOISE SOURCE/SUBJECT 8 1-38 NOISE SUPPRES AF32A-18 | E SOURCE/SUBJECT T-38 NOISE SUPPR AF32A-18 | SUPPRESSOR | Sor | | 0 8 8 8 8 8 8 9 9 | RATION: 94x RPH POWER SINGLE ENGINE GROUND RUNUP | POKER ENGINE RUNUP | RUNUP (SUPPRESSED) | SSE0) | 2000 | METEOROLOGY FEN TENP BAR PRES REL HUHI | PRESS HUMID | = 59 =29.92 = 70 | 2 | | AIRCRAF OPERATI PROFILE PAGE | 지는 없 ~ [2 | CODE | 733 80109 A |
| DISTANCE (FEET) | 9 | = | 20 | g | 3 | 29 | 3 | 0,2 | ANGLE 80 | (OEGREES) 90 100 | (EES) | 120 | 120 | 130 | 140 | 150 | 160 | 178 | 37 |
| 200 | 78.7 | 80° | 79.5 | _ | 77.0 | 76.4 | 74.7 | 73.3 | 71.3 | 71.7 | 72.1 | 71.6 | 72.8 | 73.0 | 74.7 | 76.6 | 79.7 | 75.5 | 72. |
| 315 | | 75.9 | 75.3 | | 72.6 | 72.1 | 70.7 | 69.2 | 67.2 67.2 | 67.5 | 67.7 | 67.2 67.2 | 67.0 | 68.4 | 70.0 | 71.9 | 75.3 | 70.9 | 66.4 |
| | 72.2 | 73.6 | 73.2 | 7.3 | 10.4 | 69.8 | 68.2 | 67.1 | 65.1 | 65.4 | 65.4 | 6.49 | 65.2 | 66.1 | | 69.3 | 73.1 | 68.4 | 99 |
| 2 | 69.9 | 71.2 | 71.0 | | 68.1 | 67.5 | 65.0 | 64.9 | 65.9 | 63.2 | 63.1 | 62.6 | 62.8 | 63.7 | 65.6 | 66.7 | 7.8.7 | 65.9 | 63 |
| 9 0 | 65. | 66.3 | 66.5 | | 63,3 | 62.6 | 61.2 | 66.2 60.2 | 56.3 | 58.0 | 58.1 | 57.6 | 57.8 | 58.5 | 59.6 | 61.8 | 65.9 | 61.5 | 56.5 |
| 1000 | 62.4 | 63.7 | 64.2 | 63.4 | 60.8 | 60.09 | 50.7 | 57.7 | 55,6 | 55.9 | 55.5 | 55.0 | 55.1 | 55.6 | 56.8 | 56.8 | 63.4 | 57.6 | 55. |
| 1258 | 59.1 | 61.1 | 61.7 | | 5 8. 2 | 57.3 | 56.0 | 55.0 | 53.6 | 53.1 | 52.7 | | 52.3 | 52.9 | 53.6 | | 69.9 | 54.6 | 53. |
| 1690 | 56.9 | 58.3 | 59.2 | 57.8 | 200 | | 53.2 | 52.1 | 50.0 | 56.0 | 49.8 | 4.64 | 49.2 | 9.04 | 50.6 | | 58.4 | 51.5 | 6.64 |
| 2508 | 7.00 | 52.2 | 20 M | | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 49.64 | 47.B | 45.8 | 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | £3.0 | 43.2 | 42° 6 | 42.6 | , | 43.6 | | 52.7 | *** | M.4 |
| 3150 | 47.3 | 48.7 | 51.0 | | 4 6 | 44.0 | 43.4 | 42.1 | 39,3 | 39.0 | 39.5 | 36.6 | 38.9 | 39.1 | 39.7 | 10.1 | 49.6 | 41.0 | 39. |
| 0 004 | 43.5 | 44.9 | 46.8 | | 42.3 | 40.9 | 39.6 | 38.1 | 34.9 | 34.6 | 35.6 | 34.5 | 34.9 | 34.3 | 35.6 | 35.8 | 46.1 | 37.0 | 35. |
| 200 | 20° | 40°4 | 41.7 | _ | 38.4 | 36.7 | 35.4 | 33.6 | 30.4 | 30.1 | 31.3 | 30.3 | 30.7 | 30.5 | 31.1 | 31.3 | 42.1 | 32.6 | 31. |
| 22 | 31.1 | 32.3 | 33.7 | 32.0 | 33.7 29.8 | 32°5 28°4 | 31.0 27.1 | 29.4 25.8 | 25.8 | 22.0 | 26.6 23.0 | 25. 7 21. 9 | 26.3 22.4 | 26.8 22.2 | 26.5 | 26. 5 22. 6 | 37.6 33.9 | 2 8. 5 | 26.6 |
| 10000 | 27.0 | | 29.9 | 27. | 25.7 | 24.4 | 23.1 | 22.1 | 19.0 | 18.5 | 19.1 | 10.0 | 18.4 | 18.4 | 10.5 | 16.5 | 29.6 | 19.3 | 16. |
| 12500 | 22.7 | | 25.8 | 23 | 21.3 | 20.1 | 16.6 | 10.1 | 15.5 | 15.0 | 15.1 | | 14.4 | 14.7 | 14.6 | 14.5 | 24.9 | 14.8 | 24. |
| 16000 | 16.2 | | 21.4 | 10. | 16.8 | 15.7 | 14.5 | 14.1 | 11.9 | 11.6 | 11.2 | | 10.5 | 11.0 | 10.6 | 10.7 | 19.6 | 11.4 | 10.7 |
| 2000 | 13.5 | 14.2 | 16.6 | 74.0 | 12.1 | 11.1 | 10.1 | 10.0 | • • • • • • • • • • • • • • • • • • • | 8.2 | 2.5 | 9 9 | 9 0 | 2.5 | 7.3 | 7.1 | 14.2 | 6.5 | 7.5 |
| 22000 | , | | | | | | | | | | | | , | | • | | | | |

| (TABLE: | TONE- | TONE-CORRECTED, A-WE | TEO, A- | HOIL F | GHTED OVE | OVERALL SO | SOUND LI | SOURCE (C | (DBA) | | | | | | |) IDENTI) OMEGA | ₩4 | FICATION: 8.2 77-733-891 | |
|----------------------------------|----------------|-----------------------------|---------|--------|-----------------|------------|----------|-----------|---------|-----------------------|--|-------------------------|-------------------------|-------|------|---|---|--------------------------------|---------------------|
| (NOISE SOU (T-38 (AF32A | RCE/S NOISE | RCE/SUBJECT: NOISE SUPPRESS | | | i jū | ; I | SINCE | RUNUP | ESSE D) | E 6 | NETEOROLOGY TEMP BAR PRE: REL HUM | LOGY: PRESS HUMIG | = 59 = 59,92 = 70 | T X X | | RUN DE AIRCRAF OPERATI PROFILE PAGE G | RUN 03 AIRCRAFT OPERATION PROFILE VE 28 NOV 79 PAGE G3 | CODE CODE RS 10 | 733 00109 N A |
| (DISTANCE (FEET) | • | 19 | 36 | BR | 3 | 26 | 99 | 2 | ANGLE | E (DEGREES) 90 100 | 2EES) | 110 | 120 | 130 | 140 | 150 | 160 | 178 | 186 |
| 500 | 70.0 | A2.3 | A 8. 7 | 80.7 | 77.8 | 78.2 | 74.7 | 73.3 | 72.5 | 72.8 | 73.7 | 71.4 | 7.2.2 | 72.8 | 74.7 | 77.7 | 9 | 76.8 | 74.2 |
| 920 | 77.7 | | | 7 | . 4 | 76.0 | 72.5 | 7.7 | 7 6.7 | 7.07 | | 10 | | 71.5 | 72.4 | 76.4 | | 7 6 6 | 72. |
| 315 | 75.5 | 77.9 | | . ~ | 72.6 | 73.6 | 70.4 | 69.2 | 68.4 | 68.6 | 69.3 | 68.7 | 69.9 | 69.2 | 70.0 | 72.9 | 76.6 | 72.1 | 69.7 |
| 004 | 73.3 | | | 7. | 70.4 | 71.6 | 68.2 | 67.1 | 66, 3 | 66.5 | 67.0 | 99 | | 6.99 | | 70.4 | 74.3 | 9.69 | 67.4 |
| 200 | 71.6 | | 72. | 7.1. | 68.1 | 69.2 | 62.9 | 64.9 | 64.1 | 64.3 | 2.49 | | | 64.5 | | 67.7 | | 67.1 | 6.49 |
| 639 | 66.6 | | | 69 | 65.8 | 66.8 | 63.6 | 62.6 | 61.8 | 62.0 | 62.2 | 61.6 | | 61.9 | | 65.0 | 69.6 | 64.4 | 62.4 |
| 009 | 66.1 | | | 99 | 63,3 | 4.4 | 61.2 | 60.2 | 59. 4 | 59.6 | 29.7 | | 59.1 | 59.3 | 9.69 | 62.1 | | 64.7 | 59.8 |
| , | , | , | , | | • | ; | • | | | : | | ; | ; | | | | | | ; |
| | 9 9 | 62.6 | 200 | | 0 × | 20.10 | 700 | 7 | 200 | 2 · · · · | 2/17 | 700 | 70.7 | 70.0 | 20.0 | 2 ° C | 0 | 70.0 | 1.12 |
| 1548 | | | | | 3 5 | 26.3 | 53.2 | 52.1 | 51.2 | 2 - 1 | 1 | 200 | F. 6. | | 50.5 | 52.4 | | 52.4 | |
| 2080 | 55.1 | 57.4 | | 55.6 | 52.6 | 53.4 | 50.5 | 49.1 | 48.0 | 47.8 | 4.8.2 | 4.24 | 4.7.4 | 47.3 | | 6.0 | 56.9 | 4.64 | 6.24 |
| (2500 | 51.9 | | | 52 | 49.5 | 50.1 | 47.0 | 45.6 | * | 44.2 | 44.0 | 43.9 | 43.9 | 43.7 | 43.6 | 45.1 | 54.0 | 45.9 | 4.4.4 |
| 3158 | 48.4 | | 51.1 | 4 | | 46.6 | 43.4 | 42.1 | 40.5 | 40.1 | | | 40.3 | 39.9 | 39.7 | 41.1 | 50.9 | 42.2 | 40.7 |
| 0004 | 4.4 | | | 45 | | 45.4 | 39.6 | | 35, 9 | 35.5 | 36.8 | 35.7 | 36.0 | 35.5 | | 36.6 | 47.2 | 38.0 | 36.4 |
| 2000 | 9 (| 41.8 | 2 | ė | 7 9 9 1 20 1 | 37.7 | 35.4 | 33.0 | 31.1 | 30.7 | 32,3 | 31.4 | 31.5 | 31.0 | 31.1 | 32.0 | 45.9 | 33.5 | 31.9 |
| 6300 | 35.3 | 37.8 | 37.6 | å | 43. | 32.9 | 31.6 | 50° | 26.3 | 25.9 | 27.5 | | 26.8 | 26.3 | | 27.1 | 36.3 | 28.7 | 27.1 |
| 9999 | 31.3 | 32.7 | 33.9 | N | 2 % | 28.8 | 27.1 | 25.6 | 22,7 | 25.2 | 23.4 | 25.2 | 22.7 | 22.4 | 22.5 | 22.8 | 34.1 | 24.1 | 22.7 |
| 18900 | 27. D | | 29. | | 25.7 | 24.4 | 23.1 | 22.1 | 19.0 | 18.5 | 19.1 | 18.0 | 48.4 | 18.4 | | 18.5 | 29.6 | 19,3 | 18.6 |
| 12500 | 22.7 | 23.7 | 25.8 | 23.5 | 21, 3 | 20.1 | 18.8 | 18.1 | 15.5 | 15.1 | 15.1 | 14.1 | 4.4 | 16.7 | 14.6 | 14.5 | 24.9 | 16.6 | 16.6 |
| 16000 | 18.2 | | 21. | | 16.8 | 15.7 | 14.5 | 14.1 | 11.9 | 11.6 | 11.2 | 10.3 | 10.5 | 11.0 | | 10.7 | 19.8 | 10.4 | 10.7 |
| 20000 | 13.5 | | | ż | 12.0 | 11.1 | 10.1 | 10.0 | 4. | 8.2 | 7.5 | 9 | 9 | 7.5 | | 7.1 | 14.2 | 6.5 | 7.5 |
| (25030 | 8.6 | | 11. | | 7.3 | 6.5 | 6.0 | 6.0 | 5.0 | 6.4 | 4.0 | 3.6 | 3.5 | 4.2 | | 3.8 | 6. 3 | 0°9 | 4.5 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| | ors | DISTANCE | CE = 250 FEET | £1 | | | | | | 1 1 1 1 1 | |) TEST | 2 6 | 7-733-80 | ~ |
|------------------------|-----------------|--------------|-----------------|--------|----------|--|---|-----------------------------------|---|---------------------------------------|----------|----------------------------|-----------|-----------------------|---------------------|
| (NOISE 50 T-36 (AF32 | VACE. | /SUE SE S | PPR PPR E | 0968 | = 6. W C | M POWER RUNUP ENGINE RUNUP (SUPPRE | RUNUP (SUPPRESSED) | METEOROS TEM BAR DELTA N | METEOROLOGY & TEMP BAR PRESS REL HUMID DELTA N * 0. | = 59 F =29.92 IN = 70 % | 9 | PROFINE PROFINE PAGE | 8 S H O . | C006 C006 ERS10 | 733 00109 A A |
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| TABLE: NOR! | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 256 | PRES FEET | SUR | ا د | (08) | | | | | | | | | | DENTIF OMEGA TEST 7 | ICA 0. 7-7 | TION: 2 33-661 | |
|---|--|----------------------|--------------|-------------|--------------------------------|-------------------------|------------|---------------------------|-----------|--------------------|---|---|--------------------|------------|------------|--|------------------|----------------------|-------------------|
| NOISE SOURCE/ T-30 NOISE AF32A-18 | SUPPRE | T t SSOR | | OPER SII | ATION LITAR NGLE OUND | TA POWER ENGINE RUNUP (| Sup. | 99.5 % RPH Suppressed) | RPH) | METE BA DELT | ETEOROLOGYS TEMP BAR PRESS REL HUMID | 6 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 9.92 78 0.08 | F N H G | | AIRCRAFT OPERATION PROFILE (28 NOV 79 PAGE C4 | - " - | CODE 7 CODE 0 | 733 06184 A |
| BAND CENTER FREQ (HZ) | | 97 | 92 | 98 | 3 | 53 | 3 | A S | SLE (| 0EG3E 90 | ES) | 110 | 120 | 130 | 37 | 150 | 160 | 170 | 180 |
| 20 | ₩ | 85 | 94 | 48 | 10 | 8 | 80 | 78 | 6 | 96 | 96 | 85 | 85 | 96 | 85 | S | 9 | 92 | 9 |
| | | 92 | 87 | 98 | 96 | | 98 | 96 | 85 | 85 | 87 | 29 | 29 | 87 | 8 | 99 | 9 | 10 | 2 |
| 98 | * | * | 99 | ۲ 9 | 3 | | 9 4 | 85 | 83 | 83 | 48 | * | * | 83 | 92 | 92 | * | 40 | 40 |
| 100 | 82 | 93 | 91 | 95 | 9 3 | | 90 | 81 | 11 | 11 | 82 | 79 | 28 | 19 | 8 | 78 | 79 | = | 4 |
| 125 | | 4 | 8 | M . | 16 | | 22 | 18 | 92 | 2 | 78 | 11 | 62 | 18 | 6 | 4 | 2 | 78 | 11 |
| 160 | P 6 | 2 4 | 9 2 | 5 6 | 6.4 | | 78 | 78 | 23 | 69 | * 0 | *; | 9; | 77 | <u>~</u> ; | 72 | 92 | 9 9 | ₹; |
| 226 | 7. | 73.0 | 0 M | 2 | 22 | <u> </u> | 2 2 | y 5 | - G | 0 4 0 0 | 67 | 7.29 | 1 5 | 2 0 | 7 8 | 9 | 6 2 | 9 | . 9 |
| 315 | 2 | 92 | 15 | 75 | 1. | | 2 | 2 | 6.8 | 19 | . 69 | 9 | 99 | 99 | 99 | S | 20 | 20 | 25 |
| 904 | 25 | 78 | 7.8 | 78 | 75 | | 71 | 70 | 99 | 61 | 63 | 9 | 61 | 29 | 69 | 65 | 29 | 6 0 | 9 |
| 200 | 73 | 77 | 11 | 11 | 75 | | 99 | 68 | 99 | 61 | 63 | 56 | 53 | 19 | 63 | 6 1 | 53 | 61 | 19 |
| 638 | 72 | 15 | 7.4 | 23 | 72 | | 6 8 | 68 | 99 | 9 | 9 | 28 | 23 | 61 | 63 | 19 | 29 | 99 | 63 |
| 900 | 99 | 72 | 72 | 72 | Į, | | 69 | 68 | 29 | 63 | 61 | 21 | 28 | 61 | 94 | 61 | 99 | 9 | 67 |
| 0001 | 2 (| 21 | 23 | 22 | 23 | | 69 | 69 | 65 | 29 | ر ا ا | 1 | 57. | 5 | 9 (9 (| | 7 | 9 | 9 |
| 9621 | 7 • | 22 | C 7 | 5 6 | t z | | 9 0 | 7.5 | 9 2 |) | υ n | 7 I | v n v n | v 6 | , v | £ ; | 29 | . . | 3 3 |
| 2000 | 67 | : 2 | 7.5 | 7. | 12 | | 9 | 9 5 | 9 | . S | 5 6 | , re | , R | . es | 3 4 | 3 | 4 | 9 | 3 3 |
| 2500 | 99 | 17 | 4. | 92 | 69 | | 9 | 68 | 99 | 49 | 3 | 53 | 3 | 20 | 63 | 79 | 62 | 62 | 19 |
| 3150 | 65 | 7.1 | 72 | 73 | 99 | | 99 | 69 | 63 | 9 | 554 | 53 | 544 | 26 | 63 | 61 | 9 | 53 | 53 |
| 0004 > | 69 | 11 | 72 | 7. | 69 | | 99 | 65 | 63 | 62 | 26 | 53 | 52 | 69 | 68 | 9 | 99 | 49 | 29 |
| 2005 | 79 | | 99 | Z | 99 | | 9 | 63 | 19 | 9 | 24 | 53 | 53 | 28 | 65 | \$ | 6 2 | 61 | 9 |
| 6300 | 69 | | 7.1 | 72 | 7 | | 2 | 69 | 69 | 9 | 9 | 23 | 23 | 63 | 9 | 9 | 99 | 99 | 65 |
| 9009 | 29 | 65 | 6 5 | 99 | † 9 | | 63 | 23 | 26 | 26 | 20 | \$ | 20 | 29 | | 9 | 23 | 29 | 55 |
| 19000 | 29 | 28 | 61 | 9 | 29 | | 26 | 53 | \$ | 64 | 4 | 4 5 | ## | 2 | | ž | 25 | 20 | 5 |
| OVERALL | 93 | 93 | 46 | 95 | 36 | 16 | 16 | 36 | 96 | 86 | 91 | 16 | 71 | 31 | 35 | 36 | 16 | 16 | 95 |
| () | | | Ĭ | | | | | | | | 1 | **** | | | | | | | |

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

| | AS A F | AS A FUNCTION OF | | . ພ | AND DIS | DISTANCE | FROM SOURCE | OURCE | | | | | | | | OMEGA TEST | | 10Ne | |
|---|---|--|---|---------------------------|---|---|---|---|----------------------------|---|--|----------------------|----------------------|---|---|--|---|--|--------------------------|
| NOISE SOU T-38 AF32 | TE SOURCE/SUBJECT 1-30 NOISE SUPPR AF324-18 | SUPPRESSOR | SSOR | | 0 | OPERATION: MILITAR SINGLE GROUND | RATION: MILLIARY POWER SINGLE ENGINE GROUND RUNUP (S | ER 99.5 % RPH E (SUPPRESSED) | % RPH ESSED) | ¥ 6 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N # | SSS | 29.92 29.92 70 | 9 F B B B B B B B B B B B B B B B B B B | | AIRCRAF DOPERATI PROFILE 26 NOV PAGE | CATION PATION FILE VI | RUN 64 AIRCRAFT CODE 73 AIRCRAFT CODE 73 PROFILE VERSION 26 NOV 79 PAGE D4 | 733 00104 A A |
| DISTANCE (FEET) | 7 | 3 | 36 | 200 | 3 | 50 | 69 | 20 | ANGLE 8J | 5 | DEGREES) | 110 | 120 | 136 | 031 | 150 | 160 | 170 | 180 |
| 250 | * ** | 101.5 | 102.1 99.9 | 102. | 99. | | 97.6 | 97.4 | 94.7 | 92.9 | 90.2 | 91.8 89.5 | 92.1 89.9 | 93.2 | 96.4 | 95.1 92.8 | 94.7 | 94.3 | 94.0 |
| 200 | | 94.2 | 92.2 | 000 | 900 | 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 90.3 | 90.2 87.7 65.1 | 87.7 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 85.4 | 84.7 82.0 79.3 | 85.0 79.6 | 0 0 0 0 0 0 0 0 0 0 | 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 65.4 65.4 65.5 | 8 4 . 7 . 4 . 5 . 4 . 5 . 5 . 5 . 5 . 5 . 5 . 5 | 87.2 84.5 81.6 | 86.9 84.3 84.5 |
| 10 0 C | d (3 (6) | 83.1 80.2 | 84.4 81.3 | 8 6 6 | 81. 78. | | 79.4 | 79.4 | 76.9 | 74.7 | 74.1 | 73.7 | 73.9 | 74.8 | 77.3 | 76.7 | 75.7 | 79.8 76.1 | 75.8 |
| 1500 2500 2500 | 74.7 71.3 67.2 | 77.1 | 74.97 | 2.2.2 | 75. | | 72.8 69.1 65.1 | 73.0 69.4 65.4 | 70.3 66.6 52.4 | 66 66 66 66 66 66 66 | 50.00 | 66.7 62.4 57.2 | 67.0 62.7 57.6 | 67.8 63.6 58.7 | 70.3 66.0 61.4 | 69.4 | 66.0 | 69.2 65.3 | 68.9 64.7 68.1 |
| 7 C C C C C C C C C C C C C C C C C C C | 52.6 52.1 52.1 | 65.0 55.0 55.0 | 65° 7 | | 50 00 00 00 00 00 00 00 00 00 00 00 00 0 | 2 C C C C C C C C C C C C C C C C C C C | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 60.0 55.7 49.7 | 57.7 52.4 45.8 | 1 to 0 to 0 to 0 to 0 to 0 to 0 to 0 to | 39.7 39.7 | 43.6 36.6 | 51.2 | \$55.6 \$6.7 | 56.3 4.00.4 4.00.4 4.00.4 | 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 45° 9 | 56.5 51.6 45.3 | 2004 |
| 2000 2000 2000 2000 2000 2000 2000 200 | 20 4 C C C C C C C C C C C C C C C C C C | 222 W 44 W 44 W 44 W 44 W 44 W 44 W 44 | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 14 6034 4 6 14 604 4 6 | 1 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | 29.4 19.5 9.6 | 11.00 34.00 11.00 10.00 | 13.6 13.6 3.6 3.6 | 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 15.4 7.4 7.4 | 7. 9. 6. 9. 6. | 15.1 5.5 | 12.7 | 1.0.2 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 23.6 28.8 17.7 7.4 | 100 100 100 100 100 100 100 100 100 100 | 22. 29.7 20.2 20.2 |

New Park Hopen wife .

| AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE NOISE SOURCE(SUBJECTI TEMP | SOURCE/SUBJECTs SOURCE/SUBJECTs 36 NGISE SUPPRESSOR 100.9 102.7 102.8 103.5 100.96.3 97.9 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93 | TABLES | TONE | TONE-CORRECTED, PERC | TEO, P | ERCEI VED | D NOISE | SE LEVEL | EL (PNDB) | 6 | | | | | | | | DENTI | DENTIFICATIONS | TIONS | |
|--|--|------------------|-----------------------------|----------------------|--------|-----------|---------|---------------------------------------|-----------------|--------|-----------------|------|---------------------------------------|-------|------|--------|-------|---|----------------|-----------------------|---------------------|
| SOURCE/SUBJECT: (OPERATION:) HETEOROLOGY: | SOURCE/SUBJECTs 36 NOISE SUPPRESSOR 36 NOISE SUPPRESSOR 100.9 102.7 102.8 103.5 100.96.5 100.96.5 100.4 100.5 100.2 100.5 1 | | AS A | FUNCTIO | N OF | " | IND DE | STANCE | FROM S | OURCE | | ! | | | | | |) TEST | 77-7 | 77-733-001 | |
| ### MANGLE (DEGREES) ### ANGL | 100.9 102.7 102.8 103.5 100.6 99.7 102.8 103.5 100.6 99.7 102.8 103.5 100.6 99.7 102.8 103.5 100.6 99.7 102.8 103.5 100.6 99.7 102.8 103.5 100.6 99.7 103.8 100.8 103.8 100.8 103.8 | NOISE SC T-34 | OURCE/S 1 NOISE 14-18 | SUPPRE | ESSOR | | OPER. | ATION: ATLITAR SINGLE SROUND | ENGINE RUNUP | R 99.5 | X APM ESSED) | 2000 | TEOROL TEMP BAR BAR LTA N | SS CI | 129° | r H X | | D RUN GA D AIRCRAF D OPERATI D PROFILE D 28 NOV | F 2 2 2 | CODE CODE RS10N | 733 60104 - A |
| 100.9 102.7 102.8 103.5 100.6 99.7 98.9 90.7 95.9 94.0 93.5 93.1 93.3 94.8 96.5 96.4 93.6 91.7 91.3 90.9 91.1 92.1 96.5 97.9 96.5 96.4 93.6 91.7 91.7 91.3 90.9 91.1 92.1 96.3 97.9 96.5 96.4 93.6 91.7 91.7 91.3 90.9 91.1 92.1 96.3 97.9 96.5 96.4 93.6 91.7 91.7 91.3 90.9 91.1 92.1 93.3 97.9 96.5 96.5 96.4 93.6 91.2 89.2 89.0 80.6 86.6 86.6 86.6 86.0 86.2 87.1 91.2 89.2 93.6 93.6 93.4 92.2 91.4 91.5 80.0 86.6 86.4 86.0 86.6 86.4 83.1 83.8 83.8 83.1 83.8 83.1 83.1 83.1 | 100.9 102.7 102.8 103.5 100.6 99.7 98.6 100.4 100.6 101.2 98.3 97.3 96.3 97.3 96.5 97.3 96.5 97.3 96.6 93.4 95.9 97.3 96.6 93.4 95.9 97.8 91.3 97.9 97.8 97.8 97.8 97.8 97.8 97.8 97.8 | (DISTANCE | | | 20 | 25 | 3 | 58 | 99 | 2 | ANGLE 80 | 1 | LEES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 98.6 101.4 101.6 101.2 96.3 97.3 96.5 96.4 93.6 91.7 91.3 90.9 91.1 92.1 96.3 97.9 98.3 98.3 98.3 98.5 98.6 93.4 93.5 91.2 93.5 91.3 90.9 91.1 92.1 93.8 97.9 98.3 98.6 93.4 95.5 91.4 91.5 91.2 91.3 90.9 91.1 92.1 93.8 93.4 95.4 93.6 93.4 93.6 91.2 91.3 91.2 91.3 91.9 91.3 91.9 91.1 92.1 91.3 92.9 93.4 95.6 93.4 95.6 93.4 95.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 93 | 98.6 100.4 100.6 101.2 98.3 97.3 96.6 3 97.3 96.8 99.8 99.8 99.8 99.8 99.8 99.8 99.8 | 200 | 100.9 | | | 103 | ď | 49.7 | 60 | 98.7 | 95, 9 | | 5 | | 7.20 | 2 7 70 | 97.6 | 4 | 96.6 | 9 | 90 |
| 96.3 97.9 98.3 98.9 95.9 94.8 94.8 91.2 89.2 89.0 88.6 86.6 86.8 89.6 93.8 93.8 95.9 95.9 95.9 95.6 93.4 92.2 91.4 91.5 88.8 86.6 86.6 86.4 86.0 86.2 87.1 87.2 93.8 93.4 93.6 83.4 83.6 83.4 83.6 83.4 83.6 83.4 83.6 83.4 83.6 83.4 83.6 83.4 83.6 83.6 83.6 83.6 83.6 83.6 83.8 83.4 83.6 83.6 83.8 83.4 83.6 83.6 83.7 83.7 83.8 83.4 83.6 83.8 83.4 83.6 83.6 83.7 83.7 83.8 83.4 83.6 83.7 83.7 83.8 83.6 83.7 83.7 83.7 83.8 83.8 83.8 83.8 83.8 | 96.3 97.9 96.3 96.9 95.9 95.9 94.8 91.3 95.4 95.9 96.6 93.4 95.2 91.8 95.6 93.4 95.2 91.8 95.6 93.4 95.2 91.8 95.6 93.4 95.2 91.8 93.6 93.4 95.2 91.8 93.6 93.4 95.2 91.8 93.6 93.4 95.2 91.8 93.6 93.4 95.2 91.8 93.7 95.2 93.8 93.5 95.2 95.4 95.7 95.2 95.4 95.7 95.8 93.5 95.8 95.8 95.8 95.8 95.8 95.8 95.8 95 | (250 | 98.6 | 100.4 | 160.6 | 101 | 98 | 97.3 | 96.5 | 96.4 | 93.6 | 91.7 | 91.3 | 6.06 | 91.1 | 92.1 | 95,2 | 96.0 | 94.2 | 4.5 | 7 × × × |
| 93,8 95,4 95,9 96,6 93,4 92,2 91,4 91,5 88,8 86,6 86,4 86,0 86,2 87,1 81,3 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,4 83,6 81,7 81,9 73,5 97,4 73,1 77,9 73,1 77,9 77,1 81,1 77,3 77,6 77,4 77,3 77,9 77,1 78,1 78,1 78,1 78,1 78,1 78,1 78,1 | 93,8 95,4 95,9 96,6 93,4 92,2 94,3 92,9 93,4 96,1 96,6 93,4 92,2 86,5 97,4 93,4 91,1 96,8 89,4 85,6 87,4 88,8 89,7 85,3 85,4 75,8 75,8 76,6 77,2 77,7 75,8 77,8 77,8 77,4 67,2 77,4 76,1 66,4 66,4 66,7 64,7 70,3 58,0 61,3 61,4 61,5 59,6 66,3 64,1 65,4 65,4 61,5 59,6 66,3 64,4 69,7 56,1 56,1 7,1 6 47,8 43,2 48,9 46,2 44,7 44,5 42,2 37,2 34,4 38,3 38,8 38,5 36,2 38,1 17,3 24,7 24,6 24,5 21,3 8,4 | 315 | 96.3 | 97.9 | 96.3 | 96 | | 94.8 | 94.0 | 93.9 | 91.2 | 89.2 | 89.0 | 88.6 | 88.6 | 89.6 | 92.8 | 91.9 | 91.7 | 90.9 | 91.0 |
| 91.5 92.9 93.6 93.6 94.0 91.8 65.4 68.6 69.0 86.3 64.1 83.8 83.4 63.6 54.4 83.5 54.5 54.5 54.5 54.5 54.5 54.5 54.5 5 | 91, 5 92, 9 93, 6 94, 0 91, 8 69, 6 89, 6 89, 6 89, 6 89, 6 89, 6 91, 6 91, 6 89, 6 89, 6 89, 6 91, 6 89, 7 89, 8 91, 6 89, 7 89, 8 91, 6 89, 7 89, 8 91, 6 89, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 7 89, 8 91, 91, 91, 91, 91, 91, 91, 91, 91, 91, | 904 | 93,6 | 95.4 | 95.9 | 96 | | 92.2 | 91.4 | 91.5 | 88.8 | 86.6 | 86.4 | 86.0 | 86.2 | 87.1 | 90.2 | 89.3 | 89.1 | 86.4 | 86.5 |
| 85.6 87.4 88.1 85.7 85.3 83.5 85.4 83.7 83.4 83.1 80.7 80.9 83.1 87.9 78.1 78.9 83.1 80.7 80.9 83.1 85.5 85.6 80.4 83.7 83.7 83.4 83.1 80.7 80.9 83.1 78.9 78.1 78.9 78.1 78.9 78.1 78.9 78.1 78.9 78.1 78.8 77.9 78.1 78.2 77.9 78.1 78.2 77.9 78.1 78.2 77.9 78.1 78.2 77.9 78.1 78.2 77.9 78.1 78.2 77.9 78.1 78.8 78.6 79.2 78.6 79.2 77.4 77.3 77.6 74.9 72.5 72.4 71.9 72.1 72.0 72.0 72.0 75.0 75.0 72.0 72.0 72.0 72.0 72.0 72.0 72.0 72 | 85.6 87.4 88.8 83.4 88.1 86.4 85.3 83.5 85.6 82.6 83.8 83.1 85.7 82.3 83.5 83.5 85.6 79.2 75.4 75.2 75.6 79.2 75.6 79.2 77.4 87.6 79.2 76.8 77.4 87.5 86.3 86.3 86.3 86.4 66.7 75.5 76.7 66.3 66.3 66.3 66.4 66.4 66.7 64.7 64.7 64.6 75.6 79.2 76.1 75.6 79.2 76.1 75.6 79.2 76.1 75.6 79.2 76.1 75.6 79.2 76.1 75.6 79.2 75.6 75.6 75.6 75.6 75.6 75.6 75.6 75.6 | | 91.3 | | 9 % | * | | 4.68 | 88.6 | 0.69 | 86.3 | 84.1 | 83.8 | 83.4 | 83.6 | 84.4 | 87.5 | 86.7 | 86.5 | 85.8 | 85.8 |
| 82.5 84.3 85.1 85.7 82.3 80.6 80.4 80.7 78.6 77.4 75.4 75.9 78.1 78.9 81. 78.3 81.4 82.8 84.3 85.1 85.7 77.2 77.3 77.6 74.9 72.4 77.9 77.5 77.6 74.9 72.4 77.9 78.1 78.9 78.1 78.3 71.4 69.1 82.8 77.2 77.9 77.5 77.6 74.9 72.4 77.9 77.5 77.6 77.9 77.5 77.6 77.9 77.5 77.6 77.9 77.5 77.6 77.9 77.5 77.6 77.9 77.6 77.9 77.5 77.6 77.9 77.6 77.9 77.6 77.9 77.6 77.9 77.6 77.9 77.6 77.9 77.6 77.6 | 62.5 64.3 65.1 65.7 62.3 60.6 79.2 76.6 76.2 76.6 79.2 77.4 76.2 76.6 79.2 76.6 79.2 77.4 76.2 76.6 79.2 76.6 79.2 77.4 76.3 77.4 71.8 71.8 71.5 75.5 75.7 70.3 66.7 71.8 71.8 71.5 75.5 75.7 70.3 66.7 71.8 71.8 71.5 59.6 70.7 70.3 66.7 71.8 71.8 71.5 59.6 70.7 70.3 66.7 71.8 71.8 71.5 59.6 76.7 70.3 70.4 70.4 70.7 70.3 70.4 70.7 70.3 70.4 70.7 70.3 70.4 70.7 70.3 70.4 70.7 70.3 70.4 70.7 70.3 70.4 70.3 70.3 70.4 70.3 70.3 70.4 70.3 70.3 70.3 70.3 70.3 70.3 70.3 70.3 | 826 | 0 0 | | 9 • 96 | 916 | | 86.4 | 86.2 | 86.4 | 83.7 | 81.4 | 81.1 | 80.7 | 80.9 | 01.7 | 84.7 | 83.9 | 83.7 | 83.1 | 63.1 |
| 82.5 84.3 85.1 85.7 82.3 80.6 80.4 80.7 78.0 72.5 72.4 75.0 75.2 75.9 75.7 75.4 75.8 85.2 75.9 75.3 75.5 81.4 82.8 82.6 82.6 79.2 77.4 77.3 77.6 74.9 72.5 72.4 71.9 72.1 72.6 75.7 75.2 75.4 71.9 72.1 72.6 75.2 75.2 75.2 75.2 77.6 74.9 72.5 72.4 71.9 72.1 72.6 75.2 75.2 75.2 77.6 71.4 69.1 66.5 66.0 66.2 66.9 71.7 72.8 75.0 75.2 72.7 70.3 70.2 70.7 67.7 65.3 64.3 64.3 64.6 65.3 66.3 66.3 66.3 66.2 66.9 65.7 65.9 66.7 66.7 66.3 61.2 59.4 59.5 59.6 62.7 63.9 64.2 64.3 64.4 61.5 59.6 55.4 56.3 56.7 53.3 50.5 47.6 57.6 57.8 57.4 57.2 47.6 57.8 57.8 49.7 50.0 55.8 56.1 56.1 56.2 56.2 56.7 56.3 56.5 65.7 57.6 57.6 57.6 57.6 57.6 57.6 | 82.5 84.3 85.1 85.7 82.3 80.6 79.3 81.4 82.8 82.6 79.2 77.4 76.2 78.3 78.6 79.2 76.0 77.4 72.8 77.0 75.8 75.7 70.3 68.7 71.8 75.8 75.4 69.8 66.3 64.1 66.4 66.4 66.7 64.7 61.7 59.8 61.3 61.4 65.5 59.6 56.4 59.0 61.3 51.4 65.5 59.6 56.4 59.0 61.7 64.7 64.5 59.6 56.4 50.4 49.7 50.0 50.0 70.0 70.0 70.0 70.2 46.9 7 50.0 50.0 70.0 70.0 70.0 70.0 70.3 26.7 32.3 32.4 32.4 33.2 30.1 70.7 70.3 | | 82. t | - 20 | 9 2 2 | 10 10 | | 83.5 | 33.4 | 83.6 | 80.9 | 78.6 | 78.3 | | 78.1 | 78.9 | 81.7 | 61.1 | 80.7 | 80.2 | 80.3 |
| 79.3 81.4 82.8 82.6 79.2 77.4 77.3 77.6 74.9 72.5 72.4 71.9 72.1 72.6 71.7 75.2 78.5 78.6 79.2 76.0 77.4 77.5 71.4 69.1 66.5 66.0 66.2 66.9 71.7 72.8 73.0 75.8 73.5 71.4 69.1 66.5 66.0 66.2 66.9 71.7 72.8 73.0 73.0 74.3 71.4 69.1 66.3 63.7 63.9 66.7 67.6 66.0 66.2 66.9 71.7 67.7 71.0 71.4 69.1 66.3 65.2 65.2 65.7 67.6 66.0 66.2 66.9 71.7 67.7 71.0 71.4 67.5 67.2 67.2 67.2 67.2 67.2 68.0 66.2 66.9 71.4 67.4 71.4 67.5 71.4 71.5 71.5 71.5 71.5 71.5 71.5 71.5 71.5 | 79.3 61.4 62.6 62.6 79.2 77.4 76.2 76.2 77.4 76.2 78.6 79.2 76.0 77.4 77.4 78.6 79.2 76.0 77.4 77.4 78.6 79.2 76.0 77.4 77.4 77.4 79.2 76.0 77.4 77.4 77.4 79.2 76.0 77.4 77.4 77.4 77.4 77.4 77.4 77.4 77 | 1886 | 82.5 | 94. | 85.1 | • | | 90.6 | 30.4 | 80.7 | | 75.7 | 75.4 | | 75.2 | 75.9 | 78.5 | 78.1 | 77.4 | 77.2 | 77.4 |
| 76.2 78.3 78.6 79.2 76.0 74.0 73.8 74.3 71.4 69.1 66.5 66.0 66.2 66.9 71. 72.8 75.0 75.8 72.7 70.3 70.2 70.7 67.7 65.3 64.3 63.7 63.9 66.7 66.9 66.7 66.9 71. 66.7 11.0 71.0 71.0 71.4 63.0 66.3 66.2 66.7 63.5 61.2 59.4 59.5 59.8 52.0 62.0 66.7 65.9 66.7 65.9 66.7 65.9 65.7 65.9 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70 | 76.2 78.3 78.6 79.2 76.0 74.0 72.8 72.7 70.3 68.7 71.0 71.0 71.4 69.0 66.3 66.3 66.3 66.3 66.4 66.4 66.4 66.7 59.0 66.3 59.0 66.3 59.0 65.3 69.0 66.3 59.0 59.0 59.0 59.0 59.0 59.0 59.0 59.0 | 1250 | 79.3 | | | 82. | | 77.4 | 77.3 | 77.6 | 74.9 | 72.5 | 72.4 | | 72.1 | 72.8 | . 10 | 75.0 | 76.3 | 7.2 | 7.6 |
| 72.8 75.9 75.8 72.7 70.3 70.2 70.7 67.7 65.3 64.3 63.7 63.9 64.7 67.6 68.7 11.8 71.8 71.8 71.8 71.8 65.9 64.7 67.8 68.7 63.5 61.2 59.4 59.5 58.8 59.8 62.8 64.1 65.1 65.9 64.7 67.8 65.1 65.9 64.7 67.8 65.1 65.1 65.1 65.2 65.4 59.8 65.1 56.1 56.2 55.4 59.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 57 | 72.8 75.0 75.8 75.5 72.7 70.3 68.3 68.7 71.8 71.8 71.4 69.0 66.3 68.3 68.4 65.7 64.7 64.7 66.3 55.0 53.0 55.8 56.1 56.1 54.2 56.4 65.1 54.2 56.4 56.4 56.1 54.2 56.4 56.4 56.1 54.2 56.4 56.4 56.1 54.2 56.4 56.4 56.1 56.1 54.2 56.4 57.2 56.4 57.2 56.4 57.2 56.4 57.2 56.4 57.2 56.4 57.2 56.4 57.2 56.4 57.2 56.7 56.6 24.5 521.3 6.4 57.1 17.3 24.7 24.6 24.5 21.3 6.4 | 1600 | 76.2 | | | 79. | 76.0 | 74.0 | 73.6 | 74.3 | 71.4 | 69.1 | 66.5 | | 66.2 | 69.69 | | 71-1 | 70.4 | 70.6 | 70.4 |
| 66.7 71.8 71.8 71.4 69.8 66.3 66.2 66.7 63.5 61.2 59.4 59.5 56.8 52.8 62.8 62.8 65.4 66.4 66.4 66.4 66.7 61.6 62.1 58.9 56.4 53.8 52.2 52.4 53.7 57.5 64.1 66.4 66.4 66.7 61.6 62.1 58.9 56.4 53.8 52.2 52.4 53.7 57.5 53.0 55.8 56.1 56.1 56.2 59.6 59.8 50.5 47.6 51.7 45.2 47.6 51.7 45.2 47.6 51.7 45.2 47.6 51.7 45.2 47.6 51.7 40.5 40.8 43.3 42.8 43.5 39.2 35.8 31.3 24.5 37.8 40.6 40.6 40.6 40.7 40.5 42.8 43.5 39.2 35.8 31.3 24.5 25.7 25.7 25.7 23.7 24.5 25.2 38.6 36.8 36.9 36.6 32.7 26.7 23.7 25.7 25.7 25.7 25.7 25.7 25.7 25.7 25 | 66.7 71.0 71.0 71.4 69.0 66.3 66.1 66.1 66.1 66.1 66.1 66.1 66.1 | 2000 | 72.8 | | 75.0 | 75. | | 70.3 | 70.2 | 70.7 | 67.7 | 65,3 | 64.3 | | 63.9 | 64.7 | . ~ | 66.8 | 66.5 | 969 | 66.2 |
| 64.1 66.4 66.4 66.7 64.7 61.6 62.1 56.9 56.4 53.8 52.2 52.4 53.7 57. 58.8 61.3 61.4 61.5 59.6 56.4 56.3 56.7 53.3 50.5 47.6 64.7 7 55.2 47.6 51.6 51.6 51.8 53.3 50.5 47.6 54.0 51.6 51.6 51.6 51.6 51.6 51.6 51.6 51.6 | 54.1 56.4 56.4 56.7 54.7 61.7 51.7 53.0 55.4 55.4 51.8 59.6 56.4 55.4 61.8 59.6 56.4 56.4 66.5 59.6 56.4 55.2 59.6 56.4 66.4 69.7 59.0 50.0 47.8 43.3 46.9 44.2 44.7 44.5 42.2 37.2 34.4 38.3 33.8 33.8 33.8 33.8 33.8 33.8 | 22 2 | 66.7 | | 71.0 | 71. | | 66.3 | 66.2 | 66.7 | 63.5 | 61.2 | 59.4 | 58.5 | 58.8 | 59.6 | م | 61.9 | 62.2 | 62.4 | 61.6 |
| 58.8 61.3 61.4 61.5 59.6 56.4 56.3 56.7 53.3 51.5 47.6 44.7 45.2 47.6 51. 53.0 55.8 55.8 55.8 55.8 55.8 55.8 55.8 55 | 50.8 61.3 61.4 61.5 59.6 56.4 53.0 53.0 55.4 56.1 54.2 50.2 50.2 50.2 50.0 50.0 47.6 43.3 46.9 46.2 44.7 44.5 42.2 37.2 34.4 30.3 32.4 32.4 30.1 21.7 17.3 24.7 24.6 24.5 21.3 0.4 | 212 | 64.1 | • | 66° 4 | 99 | 64.7 | 61.7 | 61,6 | 62.1 | 56.9 | 56.4 | 53.8 | 52.2 | 52.4 | 53.7 | | 55.9 | 57.1 | 57.8 | 56.9 |
| 53.0 55.4 56.1 56.1 54.2 50.2 50.6 50.5 46.5 43.0 40.5 37.4 37.6 40.6 44. 46.4 49.7 50.0 50.0 47.6 43.3 42.6 43.5 39.2 35.6 31.3 24.5 25.2 30.6 36. 46.9 46.2 44.7 44.5 42.2 37.2 36.9 36.6 32.7 26.7 23.7 15.1 15.3 20.7 27. 34.4 36.3 38.8 38.5 36.2 38.1 29.4 28.9 24.0 14.5 15.3 5.6 5.5 12.7 16. 26.7 32.3 32.4 32.4 30.1 21.7 19.5 19.9 13.8 2.5 7.1 5.6 5.5 12.7 16. 17.3 24.7 24.6 24.5 21.3 8.4 9.6 18.8 3.6 2.5 7.1 5.6 4.9 8.9 8.9 8.6 5.6 7.1 5.0 8.9 8.9 8.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 | 53.0 55.6 56.1 56.1 54.2 58.2 46.4 49.7 59.0 50.0 47.6 43.3 46.9 44.2 44.7 44.5 42.2 37.2 34.4 38.3 38.8 38.5 36.2 30.1 26.7 32.3 32.4 32.4 30.1 21.7 17.3 24.7 24.6 24.5 21.3 8.4 | 10000 P | 50.0 | 61. | 61.4 | 61. | 59.6 | 26.4 | 56.3 | 56.7 | 53,3 | 50.5 | 47.6 | 44.7 | 45.2 | 47.6 | _ | 49.2 | 50.9 | 52.4 | 51.2 |
| #664 4907 5000 5000 4706 43.5 342.8 43.5 39.2 35.8 31.3 24.5 25.2 30.6 36. 48.9 44.2 44.7 44.5 42.2 37.2 36.9 36.6 32.7 26.7 23.7 15.1 15.3 20.7 27. 34.4 30.3 38.8 38.5 36.2 38.1 29.4 28.9 24.0 14.5 15.3 5.6 5.5 12.7 16. 26.7 32.3 32.4 32.4 32.4 38.1 21.7 19.5 19.9 13.8 2.5 7.1 5.6 5.5 12.7 16. 17.3 24.7 24.6 24.5 21.3 8.4 9.6 18.8 3.6 2.5 7.1 4.9 14.8 10.2 14.8 10.2 14.8 10.2 | 46.4 49.7 50.0 50.0 47.6 43.3 46.9 44.2 44.7 44.5 42.2 37.2 34.4 30.3 38.8 38.5 36.2 30.1 26.7 32.3 32.4 32.4 30.1 21.7 17.3 24.7 24.6 24.5 21.3 8.4 | | 5.5 | 52 | 56.1 | 56 | 5.5 | 20.5 | 5 5. E | 50.5 | 46.5 | 43.0 | 40.5 | 37.4 | 37.8 | 40.6 | | 42.1 | 4.0 | 46.1 | 45.0 |
| 40.9 44.2 44.7 44.5 42.2 37.2 36.9 36.6 32.7 26.7 23.7 15.1 15.3 20.7 27. 34.4 30.3 30.8 30.8 30.2 36.2 37.2 20.4 20.9 24.0 14.5 15.3 5.6 5.5 12.7 16. 26.7 32.3 32.4 32.4 30.1 21.7 19.5 19.9 13.8 2.5 7.1 5.6 5.5 12.7 16. 17.3 24.7 24.6 24.5 21.3 0.4 9.6 10.8 3.6 2.5 7.1 4.9 6.9 0. 1.0 0.1 14.0 10.2 10.2 10.2 10.8 3.6 2.5 7.1 24.0 14.0 10.2 10.2 10.8 3.6 2.5 7.1 24.0 14.0 10.2 10.2 10.8 3.6 2.5 7.1 24.0 14.0 10.2 10.2 10.8 3.6 2.5 7.1 24.0 14.0 10.2 10.2 10.8 3.6 2.5 7.1 24.0 14.0 10.2 10.2 10.8 3.6 2.5 7.1 24.0 14.0 10.2 10.2 10.8 3.6 2.5 7.1 24.0 14.0 10.2 10.2 10.8 10.8 3.6 2.5 7.1 2.0 10.8 3.6 2.5 7.1 2.0 10.8 3.0 | 46.9 44.2 44.7 44.5 42.2 37.2 34.4 36.3 38.8 38.5 36.2 38.1 26.7 32.3 32.4 32.4 38.1 21.7 17.3 24.7 24.6 24.5 21.3 8.4 | 9269 | * 00 | 64 | 50.0 | 50 | 47.8 | ₽3°3 | 42.8 | 43.5 | 39.2 | 35.0 | 31.3 | 24.5 | 25.2 | 30.6 | ~ | 33,2 | 35.9 | 38.3 | 37.3 |
| 34.4 30.3 30.8 30.5 36.2 30.1 29.4 20.9 24.0 14.5 15.3 5.6 5.5 12.7 16. 26.7 32.3 32.4 32.4 32.4 30.1 21.7 19.5 19.9 13.8 2.5 7.1 7.1 4.9 0.17.3 24.7 24.6 24.5 21.3 0.4 9.6 10.8 3.6 2.5 7.1 24.0 14.0 10.2 10.2 10.8 3.6 | 34.4 38.3 38.8 38.5 36.2 38.1 29. 26.7 32.3 32.4 32.4 38.1 21.7 19. 17.3 24.7 24.6 24.5 21.3 8.4 9. | | 4.0 | 44.2 | 44.7 | ÷ | 42.2 | 37.2 | 36.9 | 36.6 | 32.7 | 26.7 | 23.7 | | 15.3 | 20.7 | • | 23.7 | 29.1 | 32.1 | 30.0 |
| 26.7 32.3 32.4 32.4 32.4 30.1 21.7 19.5 19.9 13.8 2.5 7.1 5.0 5.0 6.9 8. 17.3 24.7 24.6 24.5 21.3 8.4 9.6 18.8 3.6 2.5 7.1 6.9 8. | 26.7 32.3 32.4 32.4 30.1 21.7 19. 17.3 24.7 24.6 24.5 21.3 8.4 9. | 13389 | 34.6 | 38.3 | 3.8.8 | 2 | 36.2 | 30.4 | ď | 28.0 | | 4 | | 7 | U | • | • | | • | , | 6 |
| 17.3 24.7 24.6 24.5 21.3 6.4 9.6 10.8 3.6 5.7 11.8 14.8 14.8 14.8 14.8 18.2 18.8 18.8 18.8 18.8 18.8 18.8 18 | 17.3 24.7 24.6 24.5 21.3 8.4 9. | 12580 | 26.7 | 32.3 | 32.4 | 2 | 4 6 | 21.7 | | 0,0 | 7 | | 7. | | | 7 | 7 6 4 | , | | | 1,07 |
| 8.6 16.6 14.0 14.8 18.2 1.8 | | 16000 | 17.3 | 24.7 | 24.6 | 2 | 21,3 | 4 | | | 4 | • | • | | | | | • | • | 2 . | 7007 |
| | 8.8 14.8 14.8 14.8 18. | 20000 | 9.0 | 14.8 | 14.0 | 14. | 10.2 | • | | 4 | ; | | | | | | | | | • | |
| | 3.3 3.4 3.5 | 25888 | | J. J. | 3.4 | m | | | | | | | | | | | | | | | |

minteg - years a

| AS A FUNCTION | | | | | | | | | | | | | | | OMEGA | GA 8.2 | ~ | |
|---------------|---|---------|---------|-----------------------|--|--|------------------------------|-----------------|-------|----------------|---|------------------|----------|------|--------|--------------------------------|----------------------------|-----------------|
| | 5 | 6 | ANGLE A | AND DIS | DISTANCE | FROM S | SOURCE | | | | | | | |) TEST | | 77-733-001 | |
| 1 4 5 | SOURCE/SUBJECT: 38 NOISE SUPPRES 32A-18 | BJECT & | | OPERA ERRA ERRA | RATION: MILITAR SINGLE GROUND | RATIONS MILITARY POWER SINGLE ENGINE GROUND RUNUP (C | R 99.5 % RPP (SUPPRESSED) | X RPM ESSED) | 20000 | | EOROLOGY: TEMP BAR PRESS REL HUMID | = 29.9 = 29.9 | FHX X | 9 | 2 | RAFT TION ILE V DV 79 | CODE 7 CODE 0 ERSION | 33 0104 A |
| | 3 | 26 | | 9 | 20 | 99 | 22 | ANGLE 86 | 08 | EGREES) 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| | 86.3 | 86.9 | | 64.9 | 82.5 | 82.2 | 82.2 | 79.2 | • | 74.5 | 73.7 | 74.1 | 75.7 | 79.5 | 78.1 | 78.3 | 78.5 | 77.1 |
| | 84.1 | 84.7 | | N | 80.3 | 80.0 | 80.6 | 77.1 | | 72.4 | 71.6 | 72.0 | 73.5 | 77.2 | 75.9 | 76.1 | 76.3 | 75.0 |
| | 81.9 | 82.5 | • | | 78.0 | 77.8 | 77.8 | 74.9 | • | 70.2 | 69.5 | 6.69 | 71.3 | 74.8 | 73.5 | 73.8 | 74.1 | 72.7 |
| | 9: | 900 | | ô u | 5. | | | 9 5 6 | • | 68.1 | 5 | 7.0 | | *** | 7 | 1 . | 2 | 2: |
| | 24.9 | 75.6 | 76.1 | 73.6 | 20.07 | 70.7 | 70.6 | 67.9 | 65.7 | 63°0 | 62.8 | 63.1 | 9 | 67.3 | 66.1 | 66.5 | 67.1 | 65.7 |
| | 72.5 | 73.2 | | 4 | 68.3 | 68.2 | 68.4 | 65.5 | | 61.2 | 9.09 | 60.7 | 61.9 | 9.49 | 63.4 | 63.9 | 9.49 | 63.3 |
| | 69.9 | 7.0.7 | | 68.7 | 65.7 | 2.59 | 6 9 9 | on. | 2.09 | 58.7 | 57.9 | 58.5 | 59.3 | 61,9 | 60.7 | 61.2 | 62.1 | 60.8 |
| | 67.3 | 68.1 | _ | 66.1 | 63.1 | 63.0 | 63.2 | m | 58.0 | 56.0 | 55.2 | 55.4 | 56.5 | 58.9 | 57.8 | 58.3 | 59.4 | 58.1 |
| | 64.7 | 65.4 | | 4 % | 60.3 | 60.3 | 4.09 | . | 55.1 | 53.1 | 52.1 | 52.4 | 53.5 | 55.8 | 54.7 | 55.3 | 56.6 | 55.3 |
| - | 61.9 | 629 | _ | 200 | 37. | 200 | 27.5 | ω - | 52.0 | 50.1 | O . | 40.0 | 5003 | 25.0 | 51.4 | 25.5 | 53.0 | 52. |
| _ | 55.4 | , v, | , e | | 51.0 | 50.8 | 51.0 | | 1 0 M | 4 4 4 | 47. t | 41.6 | 13.0 | 12.6 | • • • | £ 20 . | 47.7 | 45.7 |
| | 51.6 | 52.2 | _ | 50.6 | 47.3 | 47.1 | 47.2 | m | 41.5 | 39.1 | 37.2 | 37.3 | 38.9 | 41.4 | 39.9 | 41.6 | 43.5 | 42.1 |
| , | 4.24 | 48.0 | | 46.5 | 43.2 | 43.0 | 43.1 | ~ | 37.3 | 34.9 | 32.9 | 32.9 | 34.7 | 37.1 | 35.5 | 37.6 | 39.7 | 38.2 |
| - | 45.9 | 43.5 | | 42.2 | 38.9 | 38.6 | 38.7 | _ | 32.8 | 30.5 | 28.4 | 28.4 | 30.2 | 32.6 | 31.0 | 33.1 | 35.3 | 33.8 |
| | 39.0 | | _ | 38.1 | 34.8 | 34.4 | 34.4 | g | 28.5 | 26,9 | 24.9 | 25.0 | 56.5 | 28.8 | 27.2 | 29•1 | 31.3 | 29•9 |
| - | 34.9 | 35.2 | 35, 1 | 8 | 30.4 | 29.9 | 29.9 | 27.2 | 24.0 | 23.1 | 21.3 | 21.6 | 22.9 | 24.9 | 23.5 | 24.8 | 56.9 | 25.B |
| | 30.5 | 30.6 | | o° | 25.7 | 25.1 | 25.1 | 22.6 | 6 | 19.3 | 17.8 | 18.2 | 19.2 | 20.9 | 19.7 | 20.4 | 22.3 | 21.4 |
| - | 25.7 | 25.8 | _ | ÷ | 20.7 | 20.2 | 20.2 | 17.8 | 14.9 | 15.5 | 14.5 | 14.8 | 15.6 | 16.9 | 16.1 | 16.0 | 17.6 | 17.0 |
| - | 23.6 | 20.7 | 24.4 | 18.9 | 15.7 | 15.2 | 15.3 | 13.0 | ċ | 11.9 | 11.4 | 11.6 | 15.1 | 13,2 | 12.7 | 12.0 | 13.1 | 12.8 |
| | , | | | | | | | | | | | | | | | | | |

| | • | #0!L'#7. 4 | * | | AND DIS | DISTANCE | FROM SC | SOURCE | | | | | | | |) TEST | ごしこ | 77-733-001 | |
|--|---|---------------|--------|------|---------|---|----------------------------|------------------------------|-----------------|---------------------|--|--------------|-------------------------|------|-------|--|-------|----------------------|---------------------|
| ###################################### | 10 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 m | 1.0 . WOOD SO | 855 | | 4 X X Q | PERATIONS MILITAY POWER SINGLE ENGINE GROUND RUNUP (S | Y PONER ENGINE RUNUP | R 99.5 % RPH (Suppressed) | х RPH ESSED) | # G | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | SS COL | = 59 = 29.92 = 70 | 1 | 9 | -) RUN 04) AIRCRAF) OPERATI) PROFILE) 28 NOV) PAGE G | -0 -A | CODE CODE RSIO | 733 0010¢ N A |
| 1740151 | - | 3 | ~ | 8 | 3 | 20 | 9 | 92 | ANGLE 80 | (OEGREES) 90 100 | (EES) | 110 | 120 | 130 | 977 | 150 | 160 | 170 | 188 |
| 44.7 | 7 | | 47.4 | 4.2 | A | A 2. 7 | A 7. | 84.8 | 4 | 78.2 | 75.8 | 75.0 | 75.4 | 76.8 | A0.7 | 79.5 | 80.1 | 79.7 | 78.7 |
| 3 | | | | 4 | 9 % | 8 1 1 | 81.1 | 81.3 | | 76.4 | 73.7 | | 73.3 | 74.6 | 78.4 | 77.3 | 77.8 | 77.5 | 76.5 |
| 11. | : | 11:1 | 13.2 | 4 | 91.4 | 79.2 | 78.8 | 79.1 | | 73.8 | 71.6 | 70.8 | 71.1 | 72.4 | 76.0 | 74.9 | 75.5 | 75.3 | 74.3 |
| : | • | 19.0 | 1:0 | | 7 9.2 | 76.9 | 76.6 | 76.8 | ~ | 71.5 | 69.4 | 68.6 | 69.0 | 70.2 | 73.6 | 72.5 | 73.2 | 73.1 | 72.0 |
| : | 3 | 76.5 | 7.5.7 | | 76.9 | 74.5 | 74.2 | 74.5 | 4 | 69.2 | 67.2 | 66. 4 | 66.7 | 67.9 | 71.1 | 70.1 | 7.07 | 70.7 | 69.7 |
| 3 | 7 2. | 7.6.1 | 76.3 | | 74.5 | 72.0 | 71.8 | 72.1 | • | 66.8 | 6 • 49 | 64.1 | 64.4 | 4.69 | 68.5 | 67.5 | 68.2 | 68.3 | 67.3 |
| :: | .:. | 73.7 | 73.9 | | 72.1 | 69.5 | 69.3 | 2 • 69 | 9 | 64.3 | 62.5 | 61.7 | 62.0 | 65.3 | 65.8 | 64.8 | 9.59 | 62.3 | 64.8 |
| *** | • | | • | | • | , | • | | 7 | , | 6 | 9 | 4 | | , 63 | • | 6 | | £ 63 |
| | | | | | 8 6 | 7 00 | 0 0 | 7 - 7 | 7 . 7 | 0 0 | 0 C C | 73. C | 770 | 24.0 | • • • | 20.0 | 6.00 | , e | 50.00 |
| | 1 | | 9 | _ | 4 | | 1 1 | 7 - 7 | 4 4 | A 4. 4. | 7 4 | | 53.6 | 24.0 | 57.0 | 56.1 | 57.1 | 57.8 | 56.8 |
| 97 97 | | 63.1 | 63.2 | 63.3 | 61.6 | 58.6 | 58.4 | 58.8 | 55.7 | 53.1 | 51.4 | 50.2 | 50.3 | 51.3 | 53.6 | 52.8 | 53.9 | 54.9 | 53.6 |
| 2 | \$ 7.8 | : | 60.1 | - | 500 | 55.5 | 55.3 | 55.7 | 52.5 | 6.64 | 48.1 | 46.6 | 46.7 | 47.9 | 50.3 | 49.2 | 50.6 | 51.8 | 50.6 |
| : | 7 | 36.6 | 56.6 | - | 55.2 | 52.2 | 51.9 | 52.3 | 49.1 | 46.3 | 4.4.4 | 42.7 | 42.8 | 44.1 | 46.6 | 45.4 | 47.1 | 48.5 | 47.3 |
| : 7 | ** | 52.6 | 52.7 | _ | 51.4 | 48.3 | 48.0 | 48.3 | | 42.3 | 40.2 | 36, 3 | 38.3 | 39.8 | 45.4 | 41.0 | 43.0 | 44.6 | 43.4 |
| : | 45.5 | *6.1 | 4 9° 4 | | 47.1 | 44.0 | 43.7 | 43.9 | 40.8 | 37.9 | 35.7 | 33.7 | 33.7 | 35.3 | 37.9 | 36.4 | 38.6 | ‡ 0 ¢ | 39.1 |
| :: | * 6.7 | 47.4 | 43.8 | | 42.5 | 39.3 | 39.0 | 39.2 | 36, 2 | 33.2 | 31.0 | 28.9 | 28.9 | 30.6 | 33.1 | 31.5 | 33.8 | 35.8 | 34.5 |
| : | | 39.3 | 39.6 | _ | 38.3 | 35.0 | 34.6 | 34.7 | 31.8 | 28.7 | 27.1 | 25.1 | 25.3 | 26.8 | 29.0 | | 29.4 | 31.5 | 30.5 |
| 4444 | 32.2 | 4 | 16. 2 | - 1 | 7.7.7 | 4.07 | 20.0 | 20.0 | ^ | 04.40 | 22.1 | 24.3 | 4.4 | 22.9 | 24.9 | 23.5 | 24.8 | 26.9 | 25.8 |
| 2 | 27.8 | 31.5 | 38.6 | | | 25.7 | 25.1 | 25. 1 | | 19.4 | 19.3 | | 18.2 | 19.2 | 20.9 | 19.7 | 20.4 | 22.3 | 21.4 |
| : | 23.2 | 25.7 | 25.8 | | | 20.7 | 20.2 | 20.2 | | 16.9 | 15.5 | 14.5 | 14.8 | 15.6 | 16.9 | 16.1 | 16.0 | 17.6 | 17.8 |
| : :: | 1 : 1 | 21.6 | 20.7 | 20.4 | 16.9 | 15.7 | 15.2 | 15,3 | 13.0 | 10.8 | 11.9 | 11.4 | 11.6 | 12.1 | 13.2 | 12.7 | 12.0 | 13.1 | 12.8 |
| 300 | 13.7 | 15.3 | 15.5 | _ | | 10.8 | 10.5 | 10.8 | م | 7.2 | 8.6 | 4.0 | 9.6 | 8.9 | 9.6 | 4.6 | 8.5 | 9.5 | 9.2 |
| | | | | | | | | | | | | | | | | | | | |

| | TSIO | NOISE LEVEL DISTANGE = | 256 | FEET | t 5 | ANGLE AROOND SOOKUE | | 3 | | | | | | | 30 F | | . LCALLONS 1 6.2 77-733-081 | . = |
|----------------------------|-----------------------|---------------------------|--|------|-----------------------------------|--|---------|------------------------------|------|--------------------------------------|----------------------------|-----------------------------|-----------------------|-------|--------------|--|-----------------------------------|--------------|
| NOISE SOU T-38 AF328 | JRCE/ NOIS 1-18 | SUBJE E SUE | E SOURCE/SUBJECT: T-30 NOISE SUPPRESSOR AF32A-18 | | OPERATIONS I MILITA SINGLE GROUND | RATION: MILITARY POWER 9 MILITARY POWER 9 SINGLE ENCINE GROUND RUNUP (SU | POWER (| R 99.5 X RPH (SUPPRESSED) | F 2 | METEOF TE BI BI RE RE | ROLOGY 8 EMP AR PRES | = 59 S = 29.92 D = 70 | 59 F 92 IN 70 % | | « « O Œ Ñ Œ | AIRCRAFT CODE OPERATION CODE PROFILE VERSION 26 NOV 79 PAGE J4 | CODE IN CODE VERSIO | 733 6010£ |
| | | | | | P=PNL | | | | A=AL | | | | Ë | T=ALT | | | | 1 |
| | ن با م | • | | | • | • | | • | | | | • | AT | • | | • • | • | |
| • | | • | • | • | • | • | • | • | • | • | • | • • | | • | • | • | • | • |
| - | 2 | • • | • • | | • • | • • | | | • • | | | • • | ₹ | • • | | . • | • • | |
| 8 |) 02 | • | • | | • | • | | • | • | | • | • | × | • | | ۵. | • | ^ ^ |
| E) | 30 | • | • | • | • | • | • | • | • • | • | • | • | AT | • | • | ď | • • | • |
| 3 | • | | • • | | • • | • • | | | • • | | • • | • • | AT | • • | Q. | • • | • • | _ |
| | 20 C | | • • | | | • • | | | • • | | | • « | _ | • • | ۰ | | • • | |
| ص خ | - S | | • | • | • | | • | • | • | • | | • 4 | • | • | • | • | • • | ^: |
| | 3 82 | • • • | • • | | • • | • • | • | • • | • • | | • • | • • | | • | • | • | • | ^ ~ |
| | 88 | • • | • • | | | • • | | • • | • • | | | A T . | | • • | ٩ | • • | • • | |
| , z | : | • | • • | • | | • • | • | | • | • | • AT | | • | • • | | • | • • | - 7 |
| • | | • | • | • | • | • | • | • | • | • | | • | • | • | • | • | • | • |
| 9 1 u u | • | • • | • • | | | • • | | | • • | | - « | • • | | • • | | • • | • • | |
| R 110 | 9 | • | • (| | • • | • • | | . • . | • | | . AT | • | | • | | • | • | ^ - |
| E 120 | . د. و | • | • | • | • | • | • | • | • | : | . AT. | • | • | • | • | • | • • | `: |
| 130 | ر . چ | | • • | | • • | •• | | • • | • • | | . AT | • • | | • • | | •• | • • | ` ^ |
| 140 | á | ٠. | • • | | • • | • • | | • • | • • | | | AT . | | • • | . a . | • • | • • | ^ ^ |
| 150 | ë C | • | • | • | • | • | • | • | • | • | • | AT | • | • | • | • | • • | ^: |
| 160 | - <u>-</u> - | | • • | | | • • | | | • • | | • • | ₩ | | • • | ٩ | | • • | |
| 170 | ب و | • | • | | • | • • | | • | • • | | • • | - | | • | a | • | • | ^ - |
| | | | • | | | • • | | | • • | | •• | • • - [1 | | • • | . (| . • | • • | . ~ . |
| 191 | 3 R | • | • | | • | • | • | • | • | • | A | • | • | • | • | • | • • | • |
| | L | | | | | | | • • • • • • • • • | | | | • | | | 1 | | | î. |

| TABLE: | NORMALIZED 1/3 OCTAVE DISTANCE = | SOUND BAND 256 | 1 LL (| SUR | LEVE | (08) | | | | | | | | | | ! ๒~~ | ICATI 8.2 7-733 | ON: | |
|--|--|----------------------|------------|-------------|--------------|----------------|------------|--------------|------------|-----------------------------------|--|------------|--------------------|--------|------------|------------|-----------------------|--------------------|-------------------|
| (NOISE SOURCE (T-38 NOISE (AF32A-18 | SOURCE/SUBJECT: NOISE SUPPRESSOR: A-18 | 8 | • | OPER SIA | NGLE OUND | ER AFT | | | 6 | METEO TEM BAR REL REL | TEOROLOGYS TEMP BAR PRESS TEL HUMID | 6 6 | 59 F 70 X 08 | S I | 240000 | ~ 4 11 0 | _ S > 2 * | ODE ODE Sion | 733 30103 A |
| (BAND CENTER (FREQ (HZ) | 9 | 10 | 20 | 30 | 3 | 50. | 99 | ANGL 70 8 | | DEGREE 90 1 | ŝ | 110 1 | 20 1 | 30 1 | 3 | 150 | 166 | 170 | 180 |
| 22 | 0 | 63 | 6 | 6 | 5 | 6 | 91 | 26 | 4 | 6 | 0 | ~ | | | 5 | 6 | 6 | 6 | 0 |
| | . 60 . 60 | 8 | | 91 | 16 | 92 | 92 | 91 | , a | 35 | 93 | | | | 92 | 93 | 6 | 95 | 92 |
| | 95 | 93 | 92 | 35 | 93 | 76 | † 6 | 95 | 93 | 93 | 96 | m | | | 94 | 56 | 95 | 93 | 6 |
| 100 | 91 | | 91 | 06 | 35 | 91 | 92 | 91 | 69 | 88 | 06 | ው | | | 26 | 95 | 91 | 91 | 90 |
| 125 | 0 6 | on I | 36 | 90 | 88 | 8 0 | 85 | 87 | 94 | 48 | 84 | 2 | | | 86 | 96 | 82 | 9 | 83 |
| 160 | ~ 1 | r. | 90 | 92 | 60 e | ۳. ه | . | | # F | 9 1 | # C | ~ • | | | 9 60 | e0 e | M 6 | 0 F | 82 |
| 192) | 7 a | | 9 c | 0 K | 2 0 | 4 4 | 28 | 102 | 10 |) <u> </u> | T 4 | - 4 | | | 4 C | 9 2 2 | 2 2 | ۲, | |
| 312 | 2 2 | ٠ ح | 9 0 | 9. | 2 2 | \ * | . * | . ± | 22 | 99 | 0.4 | , ~ | | | . 2 | 22 | 69 | 9 | 9 |
| 307 | 75 | ~ | 82 | 91 | 22 | 73 | 72 | 73 | 71 | 99 | 6.8 | . | | | 71 | 29 | 69 | 99 | 68 |
| 200 | 25 | M | 63 | 94 | 83 | 78 | 92 | 92 | 7.4 | 99 | 99 | ~ | | | 71 | 29 | 99 | 68 | 89 |
| (63 6 | | | 80 | 29 | 79 | 73 | 72 | 71 | 72 | 99 | 65 | | | | 68 | 99 | 68 | 69 | 69 |
| 708) | 72 | ۰ م | 81 | 22 | * | 73 | 72 | Z. | 7. | 99 | 65 | S | | | 69 | 9 | 23 | 72 | 11 |
| 1000 | 73 | , 28 1, 28 | 10 | 9 0 | 7 6 | 23 | 72 | 72 | 20 | 62 | 40 | м і | | | 101 | 9 | 69 | 70 | 9 |
| 1626 | 7 c 7 | 2 <u>2</u> | 5.2 | 2 K | 22 | 12 | 71 | 22 | 69 | 79 | 5 G | 9 M | 1 t | 200 | 5 5 7 5 | 0 ¢ | 10 O | 0 E | 2 8 9 |
| 2000 | 69 | 7. | 22 | 9 2 | 23 | 69 | 69 | : 12 | 69 | 99 | 62 | m | | | . 29 | 8 | 69 | 69 | 99 |
| (2500 | 29 | 92 | 81 | 36 | 73 | 89 | 69 | 77 | 70 | 99 | 9 | ~ | | | 99 | 29 | 68 | 99 | 29 |
| 3156 | 65 | 2 | 79 | 7.8 | 20 | 99 | 29 | 99 | 67 | 63 | 25 | • | | | 65 | 6 2 | 9 | 63 | 9 |
| 3874 | 69 | 73 | 78 | 77 | 20 | 99 | 99 | 99 | 99 | 62 | 28 | ∞ | | | 68 | 29 | 68 | 65 | † |
| 106) | 63 | 20 | 73 | 75 | 6 8 | 63 | 9 | 63 | 6 2 | 23 | 55 | 9 | | | 49 | 63 | 9 | 61 | 61 |
| 9000 | 9 | 11 | . | 4 | ヹ | 69 | 69 | 68 | 6 2 | 63 | 61 | 74 | | | 69 | 69 | 69 | 99 | 29 |
| 8008 | | 99 | 29 | 9 | † | 61 | 6 4 | 23 | 25 | 2 6 | 51 | = | | | 61 | 9 | 19 | 22 | 21 |
| 10000 | 20 | 9 | 6 2 | 61 | 5 8 | 96 | ů t | 53 | 51 | 20 | 45 | | | | 22 | 40 | 54 | 20 | 20 |
| (OVERALL | 100 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 86 | 66 | 96 | 66 | 66 | 66 | 66 | 66 | 66 | 86 |
| | | 1 | 1 | | | | | 1 | | | 1 | 1 | | | 1 | | | | |

| (TABLE: | | PERCEIVED NOISE LEVE | ISE LE |] | (PND 8) | • | 1 | | | <u>.</u> | | | | | |) IDENTI | DENTIFICATION OMEGA 8.2 | LION | |
|--------------------|---------|----------------------|--------|---------|---------------------------------|------------|----------------------------|--------------------------|--------------|----------|--|------|--------------------------|--|---------|----------|--|-----------------------|--------------------------|
| | | AS A FUNCTION OF | 9 | ANGLE A | AND DISTANCE | | FROM SC | SOURCE | | | | | | | |) TEST | 7-7-7 05 | 77-733-881 | |
| SION | ı ⊃ _ ≪ | SUPPRE | | | O P R R R G N |) I | ER AFTE ENGINE RUNUP | ERBURNER (SUPPRESSED) | ER ESSED) | * 8 | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | SS | = 59 = 29.92 = 7.0 | 20 F 20 F 20 F 20 F 20 F 20 F 20 F 20 F | , , , , | PA POPER | ATION TO SECULATE SECULATION SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECULATE SECURATE S | CODE CODE RS 10 | 7 33 0 0 1 0 3 N A |
| (DISTANCE (FEET) | | 10 | 20 | 8 | 3 | 50 | 9 | 7.0 | ANGLE 80 | 22 | 16ES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 200 | 163, 3 | 105.9 | 108.0 | 107.6 | σ | 102.5 | 102.4 | _ | 141.5 | 7.99 | 98.6 | | 100.6 1 | 101.0 | - | 101.1 | 181.8 | 1.00.7 | 103.2 |
| (250 | : | 103.6 | 105. | | | 100.4 | 100.3 | | 99,3 | 9.26 | 97.5 | | | œ | | 99.0 | 99.7 | | 96.0 |
| 315 | 99.0 | 161.2 | 103.6 | 163 | 9 | 98.3 | 98.1 | 98.3 | 97.2 | 95.4 | 95.4 | 6*46 | 4.96 | 96.8 | 9.76 | 6.96 | 97.5 | 96.4 | 95.9 |
| 004 | 96.8 | | 101. | ė | 3 | 96.1 | 95.9 | 96•1 | 95.0 | 93.2 | 93.2 | 92,7 | 94.2 | ŝ | 92.4 | 94.6 | 95, 3 | 94.2 | 93.7 |
| 200 | 94.5 | | 98 | 98.4 | - | 93.8 | 93.6 | 93.8 | 92, 7 | 91.0 | 90.9 | 90.5 | 92.0 | ~ | 93.1 | 95.4 | 93.0 | 91.9 | 91.3 |
| 639 | 92.1 | 94.0 | 96•3 | 95.8 | 9 | 91.3 | 91.2 | 91.4 | 90.1 | 88.4 | 86.5 | 87.9 | 89.5 | ۰ | 7.06 | 89.9 | 90.5 | 69.4 | 68.9 |
| 900 | 89.4 | 91.3 | 93.6 | 93.1 | • | 88.6 | 98.6 | 88.7 | 87.5 | 85.7 | 85.9 | 85.2 | 86.9 | _ | 88.0 | 87.3 | 87.9 | 86.8 | 86.2 |
| _ | | | | | | | | | | | | | | | | | | | |
| 1000 | 86.6 | | 90.7 | 90.2 | 87.0 | 82.9 | 85.6 | 86.0 | 84.7 | 82.9 | 83.1 | ľ | 84.1 | 84.0 | 84.9 | 84.2 | 85.1 | 83.9 | 83.3 |
| 1250 | 83,2 | | 87.5 | 87.1 | 8 4. 1 | 85.5 | 82.2 | 82.6 | 81.3 | 50.62 | 7 % 7 | | 80.7 | 80.6 | 91.5 | 80.8 | 81.6 | 80.5 | 79.9 |
| 1608 | 79.5 | 82,3 | 84.1 | 83.7 | 81.0 | 78.8 | 78.5 | 78.9 | 77.6 | 75.7 | 75.9 | | 76.9 | 76.8 | 77.7 | 77.0 | 77.9 | 76.8 | 76.2 |
| 0002 | 75.4 | | 80.5 | 80.0 | 77.7 | 74.8 | 74.4 | 74.9 | 73.6 | 71.6 | 711.7 | _ | 72.7 | 72.7 | 73.6 | 72.8 | 73.7 | 72.7 | 72.1 |
| (2508 | 70.9 | | 76.4 | 76.2 | 74.2 | 70.8 | 70.0 | 70.4 | 69,1 | 67.0 | 67.0 | ĸ | 68.1 | 68.1 | 69.0 | 68.2 | 69.1 | 68.1 | 67.5 |
| 3150 | 9 • 9 9 | | 72.3 | 72.0 | 70.1 | 99 | 65.7 | 65.6 | 2 . 49 | 61.7 | 61.7 | ~ | 62,8 | 65.9 | 63.8 | 65.9 | 64.0 | 63.0 | 62.3 |
| 0004 | 61.8 | | 67.6 | 67.3 | 65.4 | 61.5 | 60.7 | 9.09 | 59.1 | 55.5 | 55,3 | • | 96.6 | 57.7 | 57.9 | 56.7 | 56.4 | 57.9 | 57.0 |
| 5000 | 56.5 | | 62.4 | 62.2 | 60.3 | 2005 | 55.5 | 55.2 | 53.6 | 48.5 | 46.5 | | 8.64 | 51.7 | 51.9 | 50.1 | 53.0 | 55.5 | 51.4 |
| (6300 | 50.8 | 56.0 | 57.1 | 56.8 | 54.9 | 50.6 | 49.5 | 69.3 | 47.5 | 41.9 | 46.9 | ~ | 43.2 | 45.3 | 45.5 | 43.8 | 46.7 | 46.2 | 45.1 |
| 9000 | 46.0 | 51.6 | 52.7 | 52,3 | 50.6 | 45.8 | 44.6 | 44.5 | 42.6 | 35.6 | 35.2 | | 37.8 | 40.4 | 40.6 | 37.9 | 41.3 | 41.0 | 39.3 |
| _ | | | | | | | | | | | | | | | | | | | |
| 10000 | 40.6 | 46.6 | | 47.4 | 45,5 | 40.4 | 38.8 | 38.4 | 35.9 | 28.5 | 27.1 | 28.3 | 31.5 | 34.1 | 34.2 | 30.5 | 34.5 | 33.9 | 32,3 |
| 12508 | 33.9 | | | | 39.8 | 33.7 | 31.5 | 31.3 | 28.6 | 17.6 | 17.5 | 14.4 | 21.0 | 26.0 | 26.7 | 19.7 | 22.5 | 24.5 | 22.8 |
| 16000 | 24.6 | | 34 | | 32.9 | 26.5 | 24.1 | 23, 7 | 17.4 | 2.9 | 7.9 | 9 | 12,3 | 13.2 | 13.0 | 7.6 | 11.1 | 8.8 | 7.0 |
| 20002 | 12.0 | | 26.7 | | 25.4 | 14.1 | 11.9 | 10.5 | 7.0 | | | | 3.5 | ۳. | | | | | |
| 25000 | | 15.0 | | 14.5 | 1 % 7 | 1.6 | | | | | | | | | | | | | |
| | | | | | | | 1 | | | | | | | | | | | | |

| | AS A | A FUNCTION OF | | ä | AND DIS | DISTANCE | FROMS | SOURCE | į | | | | | | | TEST | 77-73 | 3-001 | |
|--------------------------|---|------------------------|-------|--------------|--------------------|--|--|--------------------------|-------------------------|-------|--|---------------------------------------|-------------------------|-----------|-------|---|--------------|------------------|--------------|
| NOISE SO 1-30 AF32 | SE SOURCE/SUBJECTS 1-38 NOISE SUPPRE AF32A-18 | UBJECT 8 SUPPRESSOR | SSOR | | OPERA N | RATION: MAX PON SINGLE GROUND | MER AFTERBURNER ENGINE RUNUP (SUPPRES) | ERBURNER (Suppressed) | ESSED) | | METEOROLOGY TEMP BAR PRE REL HUM DELTA N = | S S S S S S S S S S S S S S S S S S S | = 59 = 29,92 = 70 | 2 I Z H C | | AIRCRAF OPERATI PROFILE 26 NOV | ۲۳ ۵ ۲۳ ۶ ۳ | CODE 0 CODE 0 | 733 06103 |
| DISTANCE (FEET) | - | 97 | 20 | R | 3 | 50 | 99 | 7.0 | ANGLE 88 | | (DEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 17.0 | 191 |
| 200 | 104.9 | 107.3 | 108.7 | 108 | 105.5 | | | ~ . | 102.3 1 | 146.6 | 100.9 | 100.3 | | | | | | 01.6 | 101.4 |
| 250 315 | 102.8 | 105.0 | 106.5 | 106. 106. | 10 3, 4 10 1, 2 | | | . 16 | 10 0. 2 98. 0 | 96.5 | 98.8 | 98. 2 96. 1 | | | | N e | 9 | 99.7 | 99.3 |
| 004 | 98.4 | 100.3 | 101.9 | 102 | 99.0 | | | | 95.8 | 94.1 | Q.4° | 93, 9 | | | | | 96.6 | 95.4 | 6.46 |
| 200 | 96.1 | 97.8 | 99.5 | 99 | 96.7 | | | _ | 93.5 | 91.9 | 35.2 | 91.6 | | | | | 94.3 | 93.1 | 95.6 |
| 6 30 8 8 8 | 93.7 | 95.3 | 96.9 | 97.1 | 94.3 | 92.8 | 92.7 | | 91.0 | 89.3 | 89.8 | 89°1 | 93.6 | 90°08 | 91.7 | 91.1 | 91.9 | 90.6 | 90.2 |
| | | | : | : | ; | | | | | • | • | 3 | | | | | 1 | | ; |
| 1000 | 88.3 | 89.7 | 91.3 | ÷ | 88.7 | 4.78 | 87.1 | 87.2 | 85.5 | 83.9 | 84.4 | 63.6 | 85.2 | 85.2 | | | 96.4 | 65.1 | 84.6 |
| 1250 | 84.8 | | | å | ŝ | 34.0 | 83.7 | 83.8 | 82.2 | 90.4 | 81.0 | 80.2 | 81.8 | 81.7 | | | 83.0 | 81.7 | 81.2 |
| 1690 | 4 .4 | | | <u>.</u> | તં . | 86.3 | 90 | 80.1 | 78.5 | 76.7 | 77.2 | 40,0 | 78.0 | 78.0 | | | 79.2 | 77.9 | 77.4 |
| | 77.1 | | 61.1 | 4, | 4 ° 6 'A | 76.3 | 20.0 | 10.1 | * c | 6.27 | 3.6 | 5 2 2 2 | 73.0 | 73.0 | 9.6 | 73.9 | 73.1 | 73.9 | 7303 |
| 3150 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 70,5 | | 0 % 2 % | ٠. د | 200 | 67.2 | 66.8 | , t | 200 | 0 0 | 67.0 | 200 | 54.4 | 9 4 4 | 6 4 6 | 55.3 55.3 | 64.0 | 9 |
| | 63.1 | | 68. | ė | ۇ : | 62.7 | 61.9 | 61.6 | 20.0 | 56.2 | 56.4 | | 57.5 | 58.5 | 58.7 | | 59.5 | 58.9 | 58.0 |
| 2000 | 57.5 | | 62.8 | m | 4 | 57.1 | 56.2 | 55.9 | 54.1 | 49.1 | 49.3 | 48.5 | 50.0 | 52.4 | 52.5 | 50.8 | 53.8 | 53.2 | 52.2 |
| 6300 | 51.4 | | 57. | 2 | ŝ | 51.2 | 50.1 | 49.8 | 47.8 | 42.3 | 4.1.4 | 41.7 | 43.6 | 45.8 | 46.0 | 44.2 | 47.2 | 46.7 | 45.6 |
| 900 5 | 46.3 | | | તં | 50.9 | 46.1 | 6.44 | 44.8 | 42.8 | 35.8 | 35.5 | 35.9 | 38.1 | 40.5 | 4·0·8 | 38.1 | 41.6 | 41.2 | 39.6 |
| 14000 | 40.6 | | | | 45.6 | 40.4 | 38.8 | 38.4 | 35.9 | 28.5 | 27.1 | 28.3 | 31.5 | 34.1 | 34.2 | 30.5 | 34.5 | 33.9 | 32.3 |
| 12500 | 33,9 | | | 4 | 39,8 | 33.7 | 31.5 | 31.3 | 28.6 | 17.6 | 17.5 | 14.4 | 21.0 | 26.0 | 26.7 | 19.7 | 25.5 | 24.5 | 22.8 |
| 16000 | 24.6 | | | ÷ | 32,9 | 26.5 | 24.1 | 23,7 | 17.4 | 6.7 | 7.9 | | 12.3 | 13.2 | 13.0 | 7.6 | 11.1 | 8.8 | 7.6 |
| 20000 | 12.0 | 25.7 | 26.7 | 26. 6 | ŝ | 14.1 | 11.9 | 10.5 | 7.0 | | | | 3.5 | ₩. | | | | | |
| 25000 | | u | | | • | , | | | | | | | | | | | | | |

- Sy - 20,500 - - 00.00

| TABLE! A | - HE 16 | A-WEIGHTED OVERALL S | VERALL | | UND LEVEL | (08A) | | | | i ! ! | | | | | | LOENTI | DENTIFICATION | IONS | |
|--------------------|---------|----------------------------|--------|-------------|--|--------------------------------|--|--------------------------|---|--------------|--|-------|----------------------------|----------|------|---|------------------|------------------------|---------------------|
| | AS A F | A FUNCTION | 9 | NGLE A | ND DIS | ANCE | FROM SC | SOURCE | | | | | | | 1 |) TEST | , 2 8 | 3-861 | |
| DISE AF | | SUBJECT : E. SUPPRESSOR | • | | 0 8 8 8 8 8 8 8 8 8 | RATIONS MAX POW SINGLE S | ATIONI HAX POMER AFTERBURNER SINGLE ENCINE GROUND RUNUP (SUPPRES) | ERBURNER (Suppressed) | ER :SS£0) | 2000 | METEOROLOGY TEMP BAR PRE REL HUN DELTA N = | SSO | = 59.92 = 29.92 = 70 | FH% N | | ALACE DOPER | ~ \$ > 0 v | CODE CODE RS ION | 733 80103 A |
| DISTANCE (FEET) | - | 10 20 | • | 30 | 7 | 56 | 69 | 2 | ANGLE | | DEGREES) | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 166 |
| | 86.5 | 90.0 | 92.7 | ถ่ | | 85.9 | 85.4 | 85.5 | 84.3 | 81.4 | 81.3 | 81.0 | 4.28 | 83.6 | 84.3 | | _ | 63.5 | 62.7 |
| 250 | 84.4 | 88.6 | 96.5 | 96.1 | 86.8 8.4 | 83.8 | 83.2 | 83.4 | 82.2 | 79.3 | 79.2 | 79.0 | 80.3 | 81.4 | 82.2 | 81.3 | | 61.4 79.3 | 86.6 78.5 |
| | 80.2 | 84.2 | 66.1 | ķ | | 79.6 | 78.9 | 79.1 | 77.9 | 75.1 | 75.1 | 74.8 | 76.1 | 77.1 | 77.9 | | م ، | 77.1 | 76.3 |
| | 77.9 | 61.9 | 63, 8 | 'n. | | 77.3 | 76.7 | 76.9 | 75.7 | 72.9 | 72.9 | 72.6 | 73.9 | 74.8 | 75.6 | | ٠. | 6.42 | 74.1 |
| | 73.2 | 73.6 | 79.0 | 91. 70.6 | | 72.7 | 72.0 | 72.2 | 73.4 71.6 | 70.6 68.2 | 7 U . 7 68 3 | 67.9 | 71.7 69.3 | | 73.2 | 7 G | م ہ | 7.0.2 | 71.8 69.4 |
| | | | | | | | | | | | | | | | | | | | |
| 1000 | 70.7 | 74.8 | 76.5 | 76.1 | 73.3 | 70.2 | 69.6 | 69.8 | 6.6.5 | 65.7 | 65.8 | 65.4 | 66.8 | 67.4 | 68.2 | 67.3 | - 4 4 | 67.8 | 6,99 |
| | 65.2 | 9.69 | 71.2 | : : | 66.2 | 9 | 64.1 | 64.2 | 63.0 | 60.09 | 9.0 | 90,00 | 600 | م. د | , N | · m | | 62.2 | 61.3 |
| | 62.3 | 66.9 | 68.4 | | 65.5 | 61.9 | 61.1 | 61.3 | 60.0 | 56.8 | 56.6 | 56.2 | 57.6 | | • | | m | 59.1 | 2005 |
| | 59.1 | 63.9 | 65.4 | 3 | 62.6 | 58.8 | 57.9 | 56.0 | 56.8 | 53.3 | 52.9 | 52.6 | 54.0 | • | * | m | σ. | 55.6 | 54.9 |
| | 55.7 | 60.5 | 62.1 | 61.4 | 8 6 1 | 55.3 | . t. | 5. 5. | 23° | | 6.0 | 9.8 | 50.1 | | s r | . | PO 1 | 52.3 | 51.4 |
| | 47.7 | 50.6 | | : 4 | 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5 | 47.4 | 10 4 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 | 4 PE 0 | 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 4.0.4 | , | 0 | 47. 61.6 | | ? c | - « | | 6 to 1 | 1 |
| | 43.3 | M | 6.6 | d | 47.1 | 43.1 | 42.0 | 42.0 | 6.04 | 36.7 | 35. 7 | 35, 3 | 36.9 | | , TU | ۰ ۸ | | 48.2 | 39.0 |
| | 39.6 | 44.5 | 46.0 | | de se | 39.3 | 38.3 | 38.1 | 37.0 | 32.9 | 32.4 | 32.0 | 33.5 | 34.7 | | 33.6 | | 36.2 | 35.5 |
| 10000 | 35.6 | 4004 | 41.7 | 41.0 | 39.5 | 35.2 | 34.3 | 36.1 | 3.3.0 | 29.2 | 29.0 | 28.6 | 30.1 | 31.1 | 4 | _ | _ | 32.1 | 31.2 |
| | 31.5 | 36.0 | 37.1 | 3 | 35.2 | 31.1 | 30.1 | 29.9 | 28.9 | 25.5 | 25.7 | 25.5 | 26.7 | 27.3 | • | S S | | 27.8 | 27.2 |
| | 27.2 | 31.3 | 32.1 | 4 | ÷ | 26.8 | 25.9 | 25.8 | 24.7 | 22.0 | 22.6 | 21.9 | 23,3 | 23.7 | m | - | | 23.7 | 23.2 |
| 20002 | 23.6 | 26,3 | 26.9 | 26.4 | 25.7 | 22.5 | 21.8 | 21.7 | 20.6 | 18.7 | 19.5 | 18.6 | 20.1 | 20.1 | 20.0 | 19.9 | | 19.9 | 19.5 |
| | 10.9 | 21.2 | 21.4 | ä | ë | 18.5 | 17.9 | 17.9 | 16.8 | 15.7 | 16.6 | 15.7 | 17.1 | 16.8 | 9 | • | -1 | 16.5 | 16.1 |
| | 1 | | | | | | | | | | | | | | | | | | |

| (TABLE! | TONE-COR | TONE-CORRECTED, A-WEI AS A FUNCTION OF ANGL | ED, A- | | HTED OVER | OVERALL SC DISTANCE F | SOUND LEVEL FROM SOURC | i w | (08 A) | | | | | | | DENTI OMEGA TEST | DENTIFICATIONS OMEGA 0.2 TEST 77-733-001 | 10N: 3-601 | |
|--------------------|--|--|--------|------|-------------------|---|----------------------------|---|--------------|------|-------------------------------------|----------------|-----------------|--------|--------|---|--|-----------------------|-------------------|
| NOIN | SOURCE/SUBJECT 38 NOISE SUPPR 32A-18 | E SOURCE/SUBJECT! T-36 NOISE SUPPRESSOR AF32A-16 | SSOR | | OPERA SON | PERATIONI MAX POME SINGLE E GROUND F | ER AFTE ENGINE RUNUP | MER AFTERBURNER ENGINE RUNUP (SUPPRESSED) | ER ESSEDI | 1 | METEOROLOGYS TEMP BAR PRES REL HUMI | PRESS HUMIO | # 59,92 # 70 | E N X | | RUN 05 AIRCRAF OPERATI PROFILE 28 NOV | - 0 . v | CODE CODE RSION | 733 60103 A |
| (DISTANCE (FEET) | 9 | 10 20 | 20 | 8 | 3 | 35 | 9 | 2 | ANGLE | | DEGREES) 0 100 | 118 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 1 200 | 88.2 | 92.1 | 93.3 | | 90.5 | 87.4 | 86.9 | 96.7 | 85.2 | 82.3 | 82.6 | 82.2 | 63.5 | 94.7 | 45.4 | 94.6 | 85.4 | 84.7 | 94.0 |
| 250 | | 90.0 | 91.2 | 91.4 | å. | 85.3 | 84.8 | 84.6 | | 80.3 | | | 91.4 | 82.6 | 63.3 | 82.4 | 63.3 | 82.6 | 61.9 |
| | 9 5 | 85.6 | 86.8 | 6 % | 0 4 0 4 0 4 | 81.1 | 90.4 | 60.3 | | 76.0 | 76.4 | 76.0 | 77.2 | 78.2 | 78.9 | 78.1 | 79.0 | 78.3 | 77.6 |
| 500 | 79.6 | 83.3 | 94.5 | 40 | 61.9 | 76.8 | 78.2 | 78.1 | 76.5 | 73.8 | 74.2 | 73.6 | 75.0 | 75.9 | 76.7 | 75.6 | 76.7 | 76.1 | 75.3 |
| 630 | 77.3 | 91.0 | 62.1 | 82. | 7 % 7 | 76.6 | 75.9 | 15.8 | 74.2 | 71.5 | 72.0 | 71.5 | 72.8 | 73.6 | 74.3 | 73.5 | 74.4 | 73.8 | 73.1 |
| | 74.9 | 78.6 | 79.7 | | 77.3 | 74.2 | 73.6 | 73.4 | 71.8 | • | 9.69 | 69.1 | 70.4 | 71.1 | 71.8 | 71.1 | 72.0 | 71.4 | 7.0.7 |
| 1000 | 72.4 | 76.1 | 77.2 | _ | 74.9 | 71.7 | 71.1 | 71.0 | 4.69 | 66.7 | 67.1 | 9 • 99 | 67.9 | 68.5 | 69.2 | 4 | | 69.3 | 68.2 |
| 1250 | 69.7 | 73.6 | 74.6 | - | 72.4 | 69.1 | 68.4 | 68.3 | 66.7 | 63.9 | 64.3 | 63,8 | 65.1 | 65.7 | 4.99 | | | 2.99 | 65.5 |
| 1600 | 66.9 | 71.0 | 71.9 | _ | 69.8 | 66.3 | 65.6 | 65.4 | 63.8 | 60.9 | 61.2 | 60.7 | 62.0 | 62.7 | | | | 63.3 | 62.6 |
| 2050 | 9 | 68.3 | 69.1 | | 67.2 | 63.4 | 62.6 | 62.5 | 60,8 | 57.7 | 57.9 | | 58.7 | 59.5 | 69.0 | . | | 66.3 | 59.5 |
| 1962) | 60.0 | 65.2 | 66.0 | 66.1 | 9 4 4 4 | 60.3 | 500 400 400 | 59.2 | 57.6 | 54.0 | 24.0 | 50,4 | 55.1 | 56.1 | 56.5 | | 57.3 | 57.8 | 56.2 |
| | 53.2 | 57.9 | 20.0 | | 96.5 | 52.7 | 51.8 | 51.6 | 56.1 | 46.1 | 45.6 | 15.2 | 46.7 | 46.0 | 48.2 | , = | | 6.0 | 48.5 |
| 5000 | 48.7 | 53.4 | 54.7 | _ | 52.5 | 48.3 | 47.3 | 47.1 | 45.0 | 41.7 | 41.0 | 40.6 | 42.1 | 43.5 | 43.6 | | 45.2 | 45.3 | 44.2 |
| 6300 | 44.0 | 46.8 | 50.5 | - | 47.8 | 43.7 | 42.6 | 45.5 | 41.2 | 37.0 | 36.2 | 35.8 | 37.4 | 36.7 | 36.9 | ~ | 40.6 | 40.7 | 39.6 |
| 9999 | 39.9 | 44.7 | 46.1 | 45.5 | 43.6 | 39.6 | 38.6 | 36.4 | 37.2 | 33.1 | 32.6 | 32.2 | 33.6 | 34.9 | 35.2 | • | 36.4 | 36.5 | 35.5 |
| 40000 | 16.6 | 40.4 | 44.7 | | 9 | 7. 27 | 74. | 74. | 7.7 | 20.0 | 90 | 24. 6 | - | 1 7 12 | 7 - 72 | | _ | 10. | 24.2 |
| 12500 | 31.5 | 36.8 | 37.1 | 36.4 | 35.2 | 31.1 | 30.1 | 29.9 | 28.9 | 25.5 | 25.7 | 25.2 | 26.7 | 27.3 | 27.8 | | | 27.8 | 27.2 |
| 16000 | 27.2 | 31.3 | 32.1 | _ | 30.6 | 26.8 | 25.9 | 25.0 | 24.7 | 22.0 | 22.6 | 21.9 | 23.3 | 23.7 | 24.3 | | _ | 23.7 | 23.2 |
| (20830 | 23.0 | 26.3 | 26.9 | _ | 25.7 | 22.5 | 21.8 | 21.7 | 20.6 | 10.7 | 19.5 | 16.0 | 20.1 | 20.1 | 20.8 | • | | 19.9 | 19.5 |
| 10052) | 18.9 | 21.2 | 21.4 | | 50.6 | 18.5 | 17.9 | 17.9 | 16.8 | 15.7 | 16.6 | 15.7 | 17.1 | 16.8 | 17.6 | 6 | _ | 16.5 | 16.1 |
| ~ . | | | | | | r. | | | | | | | | | | | | | |

| |) IO | ₹ ' | * | 250 FEET | <u> </u> | | | | | | | | | | | | | | TEST | ` | 77-73-001 | 190 |
|----------------------|-------------------------------|----------------|--|------------|----------|--------|---|--|--------|--------------------------|-------|--|-------|-------|-------|----------|-------|---|---|-----------------------|-----------|------------------------------|
| 01SE 9 T-3 AF3 | SOURCE/ SOURCE/ SO NOIS | E/SUI ISE : | NOISE SOURCE/SUBJECT: T-30 NOISE SUPPRESSOR AF32A-10 | S OR | | i m | PERATIONS HAX PO SINGLE GROUND | MAX POMER AFTERBURNER SINGLE ENCINE GROUND RUNUP (SUPPRES) | TERBUI | ERBURNER (SUPPRESSED) | |) NETEOROI) TEM) BAR) REL) DELTA N | | , vae | # 53° | FHX | 9 | | AURCRAFT CODE 7. OPERATION CODE 0. PROFILE VERSION 26 NOV 79 | RAFT RATIO TILE | VERS | DE 733 IDE 00103 ION A |
| | | | | | | P=PNLT | | | | | AEAL | _ | | | | . H | T=ALT | | | | | |
| | • | • | | • | | | | | • | | • | | | | | | | | • | , | | |
| | B | •• | • | • | • | • | • | • | • | • | • • | • | • | • | • | - « | • | • | • | • | • | • |
| | 9 | • • | | • • | | | | | • • | | • • | | • • | | • • | | ¥ . | | • • | <u>α</u> . | _ | |
| | 25 | • | ٠ | • | | • | | • • | • | | • | | • | | • | | × | | • | | ۵. | • |
| | 30 | | • | • | • | • | • | • | • • | • | • • | • | • | • | • | • | . A. | • | • • | • | ÷ | • |
| | 9 | •• | | • • | | | | | • • | | • • | | • • | | • • | A | • • | | • • | • | | |
| ∢: | 20 | • • | | • • | | | | • • | • • | | • • | | • • | | • • | AT | • • | | • • | ٩ | | • |
| Z 4 | 9 | ، . | | • | | • | • | • | • | • | • | • | • | | • | A.T. | • | • | • | ٥ | • | • 7 |
| لیا اب | 92 | | • | • | • • | • | • | • | • • • | • • | • • • | • | • • • | • | • | - | • | • | • • • | | • | |
|) (| : | | | • | | • | | • | • | | • • | | • | | • | | • • | | • | | | |
| # Z | | •• | | • • | | • • | | • • | • • | | • • | | • • | | •• | T A | • • | | ٠. | | | |
| c | 8 | ٠. | • | • | • | • | • | • | • | • | • | • | • | • | . AT | • | • | • | 4 | • | • | • |
| י ש כ | 108 | ••• | | • • | | • • | | • • | • • | | • • | | • • | | A:1 | | • • | | ٠. | | | • • |
| 3 62 (| 110 | • • | | • • | | • • | | • • | • • | | • • | | • • | | A. | | • • | | •• | | | • • |
| u u | 120 | •• | • | • | • | • | • | • | • • | • | • • | • | • | • | . AT. | • | • | • | • 0. | • | • | - : |
| S | 130 | •• | | • • | | | | • • | • • | | • • | | • • | | ٠. | - | • • | | • • | | | |
| | 140 | •• | | • • | | | | | • • | | • • | | • • | | • | TA. | • • | | • | _ | | |
| | 158 | | • | • | • | • | • | • | • | • | • | • | • | | | | • • | • | • • | • | • | |
| | 450 | | • | , , • • | • | • | • | • | • • • | • | • | • | • • • | • | | | • | • | . • • | • | • | |
| | | • | | • • | | • • | | | • | | • • | | • • | | • • | ; | • • | | • • | | | • • |
| | | • • | | • • | | | | • • | • • | | • • | | • • | | ٠. | - | | | D. • | | | • |
| | 190 | ٠. | • | • | • | • | • | • | • | • | • | • | • | • | ₹. | • | • | • | ď. | • | • | |
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A STATE OF THE STA